



EX LIBRIS JOHN FARQUHAR FULTON



Bro Read of Formatt

BIOGRAPHICAL

HISTORY OF PHILOSOPHY,

FROM ITS ORIGIN IN GREECE DOWN TO THE
PRESENT DAY

BY

GEORGE HENRY LEWES.

'Man is not born to solve the mystery of Existence; but he must nevertheless attempt it, in order that he may learn how to keep within the limits of the Knowable. — GOETHE.

'For I doubt not through the ages one increasing purpose runs,
And the thoughts of men are widened by the process of the suns.'—Tennyson.

LIBRARY EDITION,

MUCH ENLARGED AND THOROUGHLY REVISED.



LONDON:

JOHN W. PARKER AND SON, WEST STRAND.

1857.

PRINTED BY

JOHN EDWARD TAYLOR, LITTLE QUEEN STREET,

LINCOLN'S INN FIELDS.

B 857l

ARTHUR HELPS

THIS WORK IS INSCRIBED

AS A MARK OF PUBLIC RESPECT AND A MEMORIAL OF LONG FRIENDSHIP,

BY -

THE AUTHOR.



PREFACE.

THIS new edition may almost be considered as a new work, so many are the additions and so extensive the alterations. Seven new names have been added to the list of philosophers,—Abelard, Algazzali, Giordano Bruno, Hartley, Darwin, Cabanis, and Gall. An Introduction, setting forth the distinguishing characteristics of Philosophy and Science, replaces the original Introduction. Under the heads of Socrates, the Sophists, Aristotle, Bacon, Spinoza, Hume, Condillac, Kant, and Eclecticism, considerable additions and alterations will be found; and throughout, the revision has been such that scarcely a paragraph remains unaltered.

The work was written ten years ago, and was addressed to a popular audience. Ten years have not been without their influence on the historian; and moreover, the success of the work has so greatly exceeded anything that could reasonably have been anticipated—not only in respect to sale, but in the directions of its influence—that on undertaking this Library Edition I felt the necessity of modifying both the aim and scope of the work. A graver audience was to be addressed, a graver tone adopted. Without forgetting the general public, I had now to think also of what students would require. Many polemical passages, many extracts, and some digressions, have been removed; and the space thus gained has prevented the new matter from swelling the work to an inconvenient size. Many references and other bibliographical details have been added, although the principle of abstinence from unnecessary citation has still been preserved.

The labour bestowed on this Edition will, I hope, render it more worthy of public acceptance. To my friend, the Rev. W. G. Clark, of Trinity College, Cambridge, an acknowledgment is due for the kindness with which he permitted me to profit by his accomplished scholarship and taste, in the revision of the proofs; but while thanking him publicly for his many suggestions and corrections, I must exonerate him from every iota of responsibility either as to the opinions or the statements in this volume.

The Introduction explains the purpose of this History and the principles of its composition; let me therefore only add here that although availing myself of the labours of other historians and critics, I have not restricted myself to them. The works of the various philosophers, with rare exceptions, have been studied at first hand, and have furnished the extracts and abstracts; that is to say, I have either collected the passages myself, or have verified them by reference to the originals, in almost all cases. While, therefore, this History makes no pretension to a place beside the many erudite and comprehensive Histories previously published, it claims to be regarded as something very different from a mere compilation. The novelty of its conception made direct acquaintance with the originals indispensable. Having to exhibit the Biography of Philosophy in its rise, growth, and development, I could not always have drawn my material from writers who had no such aim; many of the passages most significant for my purpose being totally disregarded by my predecessors.

In another respect also I have innovated, namely, in the constant interweaving of criticism with exposition. This was necessary to my purpose of proving that no metaphysical system has had in it a principle of vitality; none has succeeded in establishing itself, because none deserved to succeed. In this way I have been led to express every conclusion to which the study of metaphysical problems has led me; in some places—especially in the refutation of Sensationalism, and in the physiological discussion of psychological questions—I have been forced to content myself with a brief and imperfect exposition of my own views; and the reader is re-

quested to regard them rather in their bearing as criticisms, than as expressing what I have to say on such difficult topics.

The following list comprises some of the many general Histories which the student will find useful, should be desire ampler detail than was consistent with the size and plan of this volume:—

- In English.—Ritter, History of Philosophy, 3 vols.; Tennemum, Manual of the History of Philosophy, 1 vol.; Victor Consin, Introduction to the History of Philosophy, 1 vol.; Morell, History of Speculative Philosophy in the Nineteenth Century, 2 role. (2nd edictor, much improved).
- In French.—Degérando, Histoire Comparée des Systèmes de Philosophie, 1 vols, (2nd edition); Benouvier, Manuel de la Philosophie Aucienne, 2 vols, and Manuel de la Philosophie Moderne, 1 vol.; Dantiron, Histoire de la Philosophie en France au XIN Siècle, 1 vol.; Galuppi, Letters Philosophiques, 1 vol.
- In German.—Bitter, Geschichte der Philosophie, 9 vols.; Tennomunn, Geschichte der Philosophie, 11 vols.; Hogel, Geschichte der Philosophie, 3 vols.; Zeller, Die Philosophie der Griechen, 2 vols.; Benndin, Geschichte der Griechtsch-Rümischen Philosophie, 2 vols.



CONTENTS.

PART I .- ANCIENT PHILOSOPHY.

CHAPTER II.

1 31.59

INTRODUCTION ..

Two Martinearies - Anacionador of Mileton - P phy of Pythagoras - Triuslations from Arabotic's Med		Pirimo 11
Carrent III.		
Titl ExampsXerophinesThe Philosophy of Xe	replanes - P	armen).
des.—Zero of Elex		33
SECOND EPOCH		
Speculations on the Crestion of the Universe, and Knowledge.	un the Origi	II 0/
Heraditus.—Auxtagoras.—Empedeeles.—Democratus		55
THIRD EFOCH		
Intellectual Crisis.—The Insufficiency of all Attemption of the Problem of Existence, as well as greatered the Sophista.		

FOURTH EFOCH.

A New Ero opened by the Investion of a New Method.

Sornarus .- The Life of Socrator. -- Philosophy of Sorrates

p. 101

FIFTH REGER.

Partial Adoption of the Secretic Method.

The Megaric School.—Radial.—The Cynemic School.—Aristypus.—The Cynins.—Antidhenes and Diograms 142

SINTH RPOCH.

Complete Adaption and Application of the Secretic Method.-Plate.

Late of Plato, —Plato's Writings: their Character, Object, and Authoriticity. — Plato's Method, —Plato's Ideal Theory —Plato's Psychology —Summary of Plato's Dialectics. —Plato's Theorygy and Cosmology. —Plato's View of the Beautiful and the Good. —Plato's Ethics. (56)

SEPENTH EPOCH.

Philosophy egon reduced to a System: Class of the Socretic Movement.— Aristotle.

CHAPTER I.

CHAPTER II.

SPRINGER OF THE SOCIATIO MOVEMENT.

221

ETORTH EPOCH.

Stoud Crisis of Greek Philosophy: the Souther, Epicarcount, States, and the New Academy.

CHAPTER L.

Tax Science - Pyrrio

44.5

CHAPTER III.

Тик Енгенция.-Ергани

- 25)

CHAPTER III.

THE STOICE-Zono

234

Catteres IV	

THE NEW ACROSMY - Arcestians and Comendes

pc.246

CHAPTER Y.

SCHEARY OF THE ENGINE EVOCH

125.6

SINTH EPOCH

Philatephy affice itself with Futth , the Alexandrica Schools.

Diversa L.

RISE OF NEO-PLYSON DO - Alexandria - Philo-

258

Courses II.

ASTRONOM OF CHRISTIANITY AND NEO-PLEYONDER.—Pletters.—The Alexandrian Dialocucs.—The Alexandrian Trivity.—The Deciring of Emun-

Course III.

PRODUTE

279

Commission of Angular Philosophia

983

PART II .- MODERN PHILOSOPHY.

TRANSITION PERIOD

Facor Pateries to Bucox.—Schalasteries.—Life of Abritist.—Philosophy of Abriant.—Aspessio.—Beroul of Learning.—Girclass Bress. 280

FIRST EPOCH.

Familiation of the Industries Method

The Life of Boson. -- Bucon's Method. -- The Spirit of Boson's Method. -- Wasthe Mathod New and Unefel? (38)

SECOND EPOCH.

Panalation of the Dalactice Method.

Caterra I.

Dust alores: Life of Descript, "The Method of Describes - Application of the Method - Ta the Method True" 300

CHRAIN IX	
Servora Spinon a Life Spinon's Domina-	b ast
Carron OD	
Figur Cases is Mooras Phinometer	415
THIRD EFOCH.	
Philosophy reduced to a Question of Payelahigy.	
Cuarres L	
Bounts	-417
Courses III.	
LocksLife of LocksOn the Spirit of Locks's WritingsLe thodThe Origin of our LiteraRiements of Idealam and So	che's Me
Locks.—Locks Colics	425
CHAPPER III.	
Larastre	655
CHAPTER IV.	
STREAMS OF THE THIRD EFFOR	. 400
and a contract of the contract	
FOURTH EPOCH. The Subjective Nature of Knowledge leads to Idealism	
Bessesser - The Life of Berkeley Berkeley and Common	
Hedien	224
FIFTH EPOCH	
The Arguments of bluellan servind sat 1000 Surpticion	
Bows-Life of Bana-Boas's Soppleion,-Hiere's Theory	
Nick	
SIXTH EPOCH.	
The Origin of Knowledge voluted to Securities by the confu	rion of

Thought with Forling : the Sementicard School.

CHAPTER 1.

CHAPTER 1.

CHAPTER 2.

CHAPTER 4.

CHAPTER 4.

000				
DO	-	-	•	-
-		8.63		

	CONTENTS.	2311
	CEAPTER II.	
Harman Life of H	arthy.—Hartley's System	p. 947
	Cineria III.	
Danwix		512
	SEVENTH EPOUR	
Second Crisis . L	teeliem, Scripticism, and Semutions the Resistion of Commun Sense.	dina producing
Rutte		510
	EIGHTH EPOCH.	
Recurrence to th	e Franksmental Question respecting Knowledge,	the Origin of
	-Kant's Historical PositionKa ma's PsychologyExamination of S	

NINTH EPOCH.

Outology re-owners its Claim .- The Demonstration of the Subjectivity of Executedge over more leads to Idealina.

CHAPTER L.

From .- Life of Fights .- Fights's Historical Position .- Basis of Fights's

CHAPTER II.

Scarrings, Life of Scholling -- Scholling's Doctrines .

- 53%

CHAPTER III.

Hann.-Life of Hegel.-Hegel's Method.-Absolute Menhon.-Hegel's Logic.-Application of the Method to Nature and History, Religiou and Philosophy -

TENTH EPOCH.

Psychology ereking its fluid in Physiology.

CHAPTER I

Carasis.

621

CHAPTER III.

PRESCRIPT - Life of Gall - Gally Historical Postion - Counteropy -Phrenology as a Section 620

INDEX

ELEVENTH RPOCH

Philosophy family reliaquied top its Plan	of the facous of Position Science
Cityren	la.
Ecteroties	p. 646
Courses I	į.
Austrera Cours	(631)
CONCLUSION .	, 6/3

665

INTRODUCTION.

& I. ON THE DISPENCTION BETWEEN PHILOSOPHY AND SCIENCE.

PHILOSOPHY is everywhere in Europe fallen into discredit.

Once the pride and glory of the greatest intellects, and still forming an important element of liberal culture, its present decadence is attested no less by the complaints of its few followers than by the througing ranks of its opponents. Few now believe in its large promises; still fewer desore to it that passionate patience which is devoted by thousands to Science. Every day the contiction gains strength that Philosophy is condemned, by the very nature of its impulses, to wander for ever in one tortuous labyrinth, within whose circumscribed and winding spaces weary seekers are continually finding themselves in the trodden tracks of profeccious, who, they know, could find no exit.

Philosophy has been ever in movement, but the movement has been circular; and this fact is thrown into stronger relief by contrast with the linear progress of Science. Instead of perpetually finding itself, after years of rigantic endeavour, returned to the precise point from which it started, Science finds itself your by year, and almost day by day, advancing step by step, each accumulation of power adding to the momentum of its progress; each evolution, like the evolutions of organic development, bringing with it a new functional superiority, which in its turn becomes the agent of higher developments. Not a fact is discovered but has its bearing on the whole body of dectrine; not a mechanical improvement in the construction of instruments but opens fresh sources of discovery. Onward, and for ever ouward, mightier and for ever mightier, rolls this wondrous tide of discovery, and the 'thoughts of men are widened by the process of the suns.' While the first principles of Philosophy are to this day as much a matter of dispute as they were two thousand years ago, the first principles of Science are securely established, and form the guiding lights of European progress. Precisely the same questions are agitated in Germany at

the present moment that were agitated in ancient Greece; and with no more certain Methods of solving them, with no nearer hopes of ultimate success. The History of Philosophy presents the spectacle of thousands of intellects-some the greatest that have made our race illustrious-steadily concentrated on problems believed in he of vital importance, yet producing no other result than a conviction of the extreme facility of error, and the remotewess of any probability that Truth can be reached." The only compared has been critical, that is to say, psychological. Variety do some argue that Philosophy has made no progress hitherto, became its problems are so complies, and require more effort than the simpler problems of Science; tainly are we warned not to conclude from the past to the fixture, arraving that no progress will be made because no progross has been made. Periloss as it must ever be to set absolute limits to the future of human capacity, there can be no peril in averring that Philosophy never will nelecte its aims, because those aims lie beyond all human scope. The difficulty is impossibility. No progress can be made became no certainty is possible. To aspire to the knowledge of more than phenomena, -their resembliness, co-existences, and successions, -- is to repire to transcend the meso-rable limits of human faculty. To know more, we must be more,

The render will have perceived that I use the word Philosophy in some restricted sense; and as this is the sense which will be attached to it throughout the present History, an explanation becomes requisite. In all countries the word Philosophy has come to be used with large latitude, designating indeed any and every kind of speculative inquiry; may, in England, as Hegel notices with scarn,† microscopes, telescopes, harometers, and balances, are freely haptized 'philosophical instruments;'—Newton is called a philosophical; and even Parlimmentary proceedings get named philosophical; so wide a range is given to this word. Such expressions may be criticized, but no criticism will root them out of our language; and it is futile to argue against whatever has become thus familiar and extensive. Nevertheless, when any one undertakes to write a

^{*} Compare Kunt in the Preface to the End od. of the Kolchi for reason Forward?: * Der Metaphynik ... int des Schickest bisher noch so gemeig nicht groesen dass sie den sichern Gaug zuerr Wissenschaft entsuchlagen vermögt lätte ob sie gloch alber ist als alle sleige. ... Er ist also kein Zwerfel dass the Verfalzen hisher ein bissen Hernattrypen, und was das Schlimmste ist, unter blomes Begriffen gewisen arg.
† Greekight der Philosophie 1, 72.

History of Philosophy, he must define the limits of his undertaking; and as I have not the slightest intention of including either microscopic inquiries, or Parliamentary debates, within my memtise, but of rigorously limiting it to such topics as are comprised in other Histories of Philosophy, it is indispensable to define the word "Philosophy," by limiting it exclusively to Metaphysics, in direct anticlassis to Science. This is the sense it bears in all other Histories; except that the demarcation from Science is not always rigorously made.

In the early days of speculation all Philosophy was oscintially metaphysical, because Science had not distinctly emerged. The particular sciences then cultivated, no less than the higher genevalities on Life, Destiny, and the Universe, were studied on one and the same Method; but in the course of human evolution a second Method grew up, at first timidily and meconsciously, gradually enlarging its bounds as it enlarged its powers, and at last separating itself into open antugonism with its parent and rival. The child then destroyed its parent; as the mythic Zens, calling the Titaus to his aid, destroyed Saturn and usuaged his throne. Observation and Experiment were the Titaus of the new Method.

There are many who deplore the currenchment of Science, foully imagining that Philosophy would respond better to the wants of men. This regret is partly sureasoning sentiment, partly ignorance of the limitations of human faculty. Even among those who admit that Philosophy is an impossible attempt, there are many who think it should be persevered in, because of the lofty times it is supposed to open to us. This is as if a man desirous of going to America should insist on walking there, because journeys on foot are more pactical than journeys by mil and steam; in vain is he shown the impossibility of crossing the Athantic on foot; he admits that growlling fact, but his body send has visious of some mysterious overland route by which he will pass. He dies without reaching America, but to the last grap he minimizes that he has discovered the route on which others may reach it.

O Brader! let us hear no more of the lofty views claimed as the exclusive privilege of Philosophy. Ignorant indeed must the man be who nawadays is manequainted with the grandour and sweep of scientific speculation in Astronomy and Geology, or who has never been theilled by the revolutions of the Telescope and Microscope. The heights and depths of man's mature, the heights to which he appress, the depths into which he searches, and the grander gene-

rabries on Life, Destiny, and the Universe, find as eminent a place in Science as in Philosophy, with the simple difference that they are less vague and are better founded. And even were we compelled to acknowledge that the lofty views of Philosophy were excluded from Science, the carrest mand would surely barter such lottiness for Pouth. Our struggle, our passion, our hope, is for Truth, not for loftiness; for sincerity, not for pretence. If we cannot reach certain brights, let us acknowledge them to be innecesrible, and not deceive ourselves and others by phrases which protend that these heights are accessible. Bentham warms as against "question-legging opithers," and our of these is the epithet "letty," with which Philosophy allines the unwary student. As a specimen of the sentiment so imaggregately dragged in to decide questions not of sentiment but of truth, consider the following passage delisvered from the perfessoral chair to students whose opinions were to be formed :-

"A spirit of most misindging contempt has for many years become fedicarable towards the metaphysical contemplations of the elder usges. Alas! I emnot understand on what principles. Is it, then, a matter to be expliced in that we have at length discovered that our faculties are only formed for earth and carthly phenomena? Are we to rejoice at our own limitations, and delight that we can be countly demonstrated to be prisoners of sense and the farts of sense? In those early struggles after a higher and more perfect. knowledge, and in the forgetfulness of every inferior science through the very ardour of the pursuit, there is at least a glorious, an irresatilde testimony to the loftler destines of mon; and it might almost he pronounced that in ruch a view, their very errors evidence n truth higher than all our discoveries can disclose! When Lord Bacon, with his clear and powerful reasonings, led our thinkers from these ancient regions of thought (then newly opened to the modernworld to the humbler but more varied and extensive department of inductive inquiry, I represent to myself that angel-guide, all light and grace, who is pictured by our great poet as slowly conducting the first of our rare from Paradise, to leave him in a world, vast, indeed, and varied, but where thorns and thistles abounded, and food -often uncertain and often perilous-was to be guined only by the sweat of the brow and in the downess attitude of servile toil."

It would be an insult to the reader's understanding to nurser the several absorbities and "question-begging" positions of this passage,

[&]quot; Anther Bitley, Lectures on the Blat of Assemb Philosophy, ii. 100. The

which however is a typical specimen of much that may be met in modern writers; all that I find called upon to notice is the opening sentence. Contempt for the metaphysical speculations of the chler sages is the last feeling. I should technosledge, lowerer erroneous I may believe them to be. They were the procursors of modern Science. Without them we should have been in darkness. The forlors hope of Humanity can never be an object of contempt. We follow the struggles of the early children with intense interest, because we trace in their defeats the causes of future victory.

The instorical connection of Science with Philosophy, and the essential differences between them, which led to their separation and the final neglect of Philosophy, will be understood better when the characteristics of the two are clearly set forth. The object of both is the same, namely, Explanation of all phenomena. Their characteristic differences therefore do not lie in the thing sought, so much us in the Method of search. I have met with no satisfactory statement of these characteristic differences; and the realiest way I can think of to make them intelligible, will be to exhibit the Metaphysical and Scientific Methods in operation on the search after the causes of the same phenomenous, for instance, that of Table-terning."

A few persons stand cound a table, gently resting their hands on it, but solubously energid not to push in any direction. In a lattle while the table moves, at first slowly, afterwards with growing velocity. The persons are all of the highest respectability, above suspition of withit deceit. The phenomenon is so unexpected, so unprecedented, that an explanation is imperiously demanded. We have here an illustration of the origin of Philosophy. In presence of unusual phenomena, men are unable to remain sixtant some explanation which shall render intelligible to them how the unusual event is produced. They are spectators merely; condemned to witness the exent, mindle to penetrate directly into its causes, meable to get

varied and accurate eradition of Mr. W. H. Thompson's notes to these becturns gives these valuants their chief value.

^{*} There is difficulty as selecting a ministre illustration, because if an uniformed acceptable truth be chosen, the reader may not be able to place kineach at the assumptional point of view; whereas if a deputed point be shown be may perings branch adopt the metaphysical explanation and refuse to acknowledge the scientific explanation. 'Table-terming compass both objections. The maria is sufficiently recent to permit our civilly realizing the moral conditions of the theorists; and the error is sufficiently exploded to admit of being treated as an error.

behind the scenes and see the strings which move the purports, they garas at what they cannot see. In this way Man is interpres No. fore. Whether he be metaphysician or man of science, his stieting-point is the same; and they are in error who say that the metaphysician differs from the man of science in drawing his explanation from the recesses of his own tond in hea of drawing it from the observation of facts. Both observe facts, and both draw their interpretations from their own minds. Nav., strictly considered, there is necessarily, even in the most familiar fact, the assertation of mental inference-something added by the mind, suggested by, but not given in, the immediate observation. Facts are the registration of direct observation and induced inference, congenies of particulars partly seasational partly ideal. The scientific value of facts depends on the validity of the inferences bound up with them; and hence the profound truth of Cullen's parados, that there are more false facts then false thronics current.

The faces comprised in the phenomenon of 'Table-turning' are by no means so simple as they have been represented. Let us however erserve all criticism, and fix our attention solely on the phenomenon, which, expressed in rigorous terms, amounts to this —the table turns; the cause of its turning unknown. To explain this, our class of metaphysical minds refers it to the agency of an unseen Spirit; connecting this spiritual manifestation with others which have been familiar to him, the interpreter finds no difficulty in believing that a Spirit moved the table; for the movement assuredly asseed from no homan agency; the respectable witnesses declare they did not push. Unless the table moved steelf, therefore, the conclusion must be that it was moved by a Spirit.

Minds of another class gave another explanation, one equally metaphysical, although its advocates accordially rejected the spiritual hypothesis. These minds were indisposed to admit the existence of Spirits as agents in natural phenomena; but their interpretation, in spite of its employing the language of science, was as utterly removed from accentific induction as the spiritual interpretation they despised. They attributed the phenomenon to Electricity. Connecting this supposed electrical manifestation with some other fiets which seemed to warrant the belief of nervices action being identical with electricity, they had no besitation in affirming that electricity streamed from the tips of the fagers; and it was even suggested by our gentleman that 'the nervous fluid had probably a rotatory action, and a power of throwing off some of its surplus force.'

Early of these explanations was very widely necepted by the general public, although few persons of any reasoning power now necops them. The obvious defect in both lies in the atter absence of any guarantee. We ought to be outsided with us explanation which is without its valid guarantee. Before we purchase silver spoons we demand to see the mark of Silversmiths' Hall, to be assured that the spaces are silver, and not planed only. The test of the assoyer dispels our misgivings. In like manner when the motion of a table is explained by societual agency, auteal of debuting whether the spirit bring airs from heaven or blasts from hell, we suffer our seepticism to fell on the preliminary assumption of the spirit's presence. Perme the pressure of the sunit, before you ask us to go further. We may admit that, if present, the spirit is capable of producing this motion of the table; but we cannot permit you to assume such a presence merely to explain such a movement; for if the fact to be explained is sufficient peoof of the explanation, we might with equal justice assume that the movement was caused by an invisible deagon who turned the table by the finning of his awful wings.

A similar initial error is observable in the electrical hypothesis. Electricity may be a less intrinsically improbable assumption, but its presence requires proof. After that step had been taken, we should require proof that electricity could compact itself with reference to tables and similar bodies in this particular manner. We have taxious tests for the presence of electricity; various means of ascertaining how it would not upon a table. But soming that the prathemen who spoke so confidently of 'emercuta issuing from the tips of the fingers' never once attempted to prove that there were currents; and knowing moreover that these currents, if present, would sot make a table turn, all men of true scientific culture dismissed the explanation with contenent.

Such were the metaphysical Methods of explaining the phenomenon. Let us now watch the scientific Method. The point sought is the unknown cause of the table's movement. To reach the unknown we must pass through the areanes of the known; we must not attempt to reach it through the anknown. Is there my known fact with which this movement can be allied? The first and most obvious suggestion is, that the table was pushed by the hands which rested on it. There is a difficulty in the way of this explanation, namely, that the persons declare solemnly they did not push; and, as persons of the highest respectability, we are bound to believe there. Is this statement of any value? The whole question is involved in it. But

the philosophical mind is very little affected by guarantees of respecialishing in matters implicating segrelary rather than inventity. The Frenchmon assured his friend that the earth did turn round the sun, and offered his parely of housew as a guaranter; but in the delicate and difficult questions of science: paroles of houseser have a unite improvedable weight. We may therefore set unite the respectability of the witnesses, and, with full confidence in their integrity, estimate the real value of their assertion, which amounts to this they were not conscious of yushing. We now see that the fact, which was imagined to be simple, namely, that the persons did not pesh, turns not to be excessively dubious, namely, 'they were not conscious of pushing.' If we come to examine such a case, we find Physiology in procession of abundant examples of muscular action accompanied by no distinct consciousness, and some of these emorples are very similar to those of the unconscious pushing, which may have turned the table; and we are thus satisfied of three insportant points .- L. Pushing is an adequate cause, and will serve to explain the movement of the table, as well as either the supposed spirit or electricity. 2: Pushing may take place without any distinct consciousness on the part of those who push. 3. Expertant attention is known to produce such a state of the numeles as would oversion this unconscious pushing.

Considered therefore as a more hypothesis, this of unconscious pushing is strictly scientific; it may not be true, but it has fulfilled the preliminary conditions. Unlike the two hypotheses it opposes, it assumes nothing previously unknown, or not easily demonstrable; every position has been orified; whereas the metaphysicians have not verified one of their positions; they have not proved the presence of their agents, pur have they proved that these agents, if present, would act in the required manner. Of spirit we know nothing, consequently can preficute nothing. Of electricity we know something, but what is known is sed in accordance with the table-turning hypothesis. Of proking we know that it can and does turn tables. All then that is required to convert this latter hypothesis into seventific certainty, is to prove the presence of the pashing in this partienlar case. And it is proved in many ways, positive and negative, as I showed when the phenomenon first became the subject of public investigation. Positive, because if the hands not on a loose tablecloth, or on substances with perfectly smooth surfaces which will glide enaily over the table, the cloth or the substances will move. and not the table. Negative, because if the persons are duly moved of their liability to unconscious pushing, and are told to keep vigilant guard over their sensations, they do not move the table, although previously they have moved it frequently. When we have thus ventled the presence of unconscious pushing, all the links in the chain have been verified, and certainty is complete.

Reviewing the three explanations which the phenomenon of tableturning called forth, we elicit one characteristic in distinguishing the scientific Method, namely, the recification of each stage in the process, the guaranteeing of each separate point, the cultivated caution of proceeding to the unknown solely through the memor of the known. The germant difference, then, between the metaphysical and scientific Methods, is not that they flow their explanations from a different source, the one employing Reasoning where the other employs Observation, but that the can is content with an explanation which has no further guarantee than is given in the logical explanation of the difficulty; whereas the other imperatively demands that every assumption should be treated as provisional, hypothetical, until it has been confronted with fact, tested by acknowledged tests, in a word, everified. The guarantee of the metaphysician is purely logical, subjective: it is the intellector vite perminute; the guarantee of the other is derived from a correspondence of the idea with experience. As Bacon says, all merely logical explanations are valueless, the subtlety of nature greatly surpassing that of argument: "Subtilities natural subtilitation argumentandi multis partibus superat;" and be further says, with his usual felicity, Sed axionata à particularibus rité et online abstracta nova porticularia rursus facilé indicant et designant." It is these "new particulars' which are reached through those already known, and complete. the links of the causal clinin.

Open the biscory of Science at any chapter you will, and its pages will show how all the errors which have gained acceptance gained it because this important principle of verification of particulars was neglected. Incressantly the mind of man leaps forward to 'anticipate' Nature, and is satisfied with such anticipations if they have a logical consistence. When Gales and Aristotle thought that the air rireshated in the arteries, causing the pulse to beat, and cooling the temperature of the blood, they were content with this plausible anticipation; they did not verify the facts of the air's presence, and its croling effect; when they said that the 'spiritrous blood' non-rished the delicate organs, such as the large, and the 'venous blood' nourished the coarser organs, such as the liver; when they said that

the 'spirit,' which was the purer element of the blood, was formed in the left centricle, and the venous blood in the right ventricle, they contented themselves with unverified assumptions. In like manner, when in our own day physiologists of emissione maintain that in the organism there is a Vital Force which suspends elemental actions, they content themselves with a metaphysical invented interpretation of phenomena. If they came to regorous confrontation with fact, they would see that so far from chemical action being 'suspended' it is increasantly at work in the organism; the varieties observable being either due to a difference of conditions (which will produce varieties out of the organism), or to the fact that the action is masked by other actions.

If the freezoing discussion has carried with it the reader's assect, he will perceive that the distinguishing characteristic of Science is its Method of graduated Verification, and not, as some think, the employment of Induction in him of Deduction. All Sesence is deductive, and deductive in proportion to its separation from unimary baseriofye, and its co-ordination into systematic Science. Although all sciences tend to become more and more deductive? says a great authority, "they are not therefore the less inductive; every step in the feduction is still an induction. The opposition is not between the terms Inductive and Deductive, but between Deductive and Experimental." Experiment is the great instrument of Verification. The difference between the ancient and modern philosophies lies in the facility with which the one accepted axions and hypotheses in the basis for its defluctions, and the cultivated custion with which the other insists on verifying its axioms and hypotheses before deducing conclusions from them. We guess as freely as the ancients; but we know that we are guessing; and if we chance to forget it, our rivals quickly remind us that our guess is not evidence. Without guessing, Seisner would be impossible. We should never discover new islands, dod we not often centure seawards with intent to sail beyond the sunset. To find new land, we must often quit sight of land. As Mr. Thompson admirably expresses it :-Philosophy proceeds upon a system of credit, and if she never advanced beyond her tangible earnal, our wealth would not be so

Mill's Sprice of Lopic perhaps the greatest contribution to English speculation since Locko's Easts. Hast Mr. Mill ascented a new terminology, said expressed binnell with less sharmen, he would assembly have gained that requisition for producity which, by a thorough intercompanion of the nature of thought is so often awarded to obscurity.

enormous as it is." While both metaphysician and man of science trade on a system of credit, they do so with professibly different sieve of its aid. The metaphysician is a merchant who speculates holdly, but without that convertible capital which can enable him to meet his sugargements. He gives bills, yet has no gold, no goods to answer for them; these bills are not representative of wealth which exists in any warehouse. Magniferent as his speculations seem, the first obstinate creditor who insists on payment unless him bankrupt. The man of science is also a unituresome merchant, but one fully alive to the necessity of solid capital which can on emergency be produced to meet his bills; be known the risks he turn whenever that amount of capital is exceeded; he knows that bankruptey awaits him if capital be not forthcoming.

The contrast therefore between Philosophy and Science, or Metaphysics and Positive Philosophy, is a contrast of Method; but we must not suppose that the Method of the one is Deduction, while that of the other is Observation. Nothing can be more erroneous than the culgar notion of the 'Industive Method,' as one limited to the observation of facts. Every instructed thinker knows that first of observation are particular theories; that is to say, every fact which is registered as an observation is constituted by a synthesis of sensation and inference. We shall see this illustrated presently. To it must be added the truth that Science is constantly making discoveries by Reasoning alone, alouf from any immediate exercise of Observation, aloof indeed from the very phenomens it classifies; for when facts are registered in formulas, we resign ownelves to the manipulation of these formulas in symbols or equations, assured that the result will accord with Nature. Frespel predicted the change in polarisation from no observation of facts immediately lying before him, but from a happy elucidation of algebraic symbols. Astronomy is more studied on paper than through the telescope, which however is called upon to wrife the results figured on paper. So that if we conquire our astronomical and geological theories with the cosmical speculations of a Plato or a Herel, we shall not find them deficient in the speculative during which outrues the slow process of observation, but we shall find the difference to lie initially in the rigour with which our deductive formulas are established, and in the different estimates we form of what is valid evidence.

[&]quot; Ontlian of the Lam of Thought, p. 312.

Galileo made Astronome a science when he began to seek the unknown through the known, and to interpret celestial phenomena by those laws of motion which were recognized on the earlier of the earth. Geology became possible as a science when its principal phenomena were explained by those laws of the action of water, visilily operating in every river, estuary, and hay. Except in the grandrive of its avery, the mind pursues the same course in the interpretation of geological facts which record the annuls of the universe. as in the interpretation of the ordinary incidents of daily life. To read the pages of the great Stone-book, and to perceive from the aret streets that rain has recently falles, are the same intellectual processes. In the one case the mind traverses immenourable spaces of time, and indees that the phonomena were produced by causes similar to those which have produced similar phenomena within recent experience; in the other case, the mind similarly infers that the wet streets and swollen gutters have been produced by the same cause we have frequently observed to produce them. Let the inference sums with its mighty arels a myriad of years, or span but a few minutes, in each case it rises from the ground of certain familiar indications, and reaches an antecedent known to be capable of producing these indications. Both inferences may be wrong: the wet streets may have been wetted by a water-cart, or by the hunding of a pipe. We cast about for some other indication of rain besides the wetness of the streets and the turbol rush of gutters, which might equally have been produced by the bursting of a waterpipe. If we see passers-by carrying net umbrellas, some still held above the head, our inference is strengthened by this indication, that rain, and no other coase, produced the phenomena. In like manner, the prologist casts about for other indications besides those of the subsidence of under, and as they accumulate, his conviction strengthons;

While this is the course of Science, the course of Philosophy is very different. Its inferences start from no well-grounded basis; the arches they throw are not from known fact to unknown fact, but from some unknown to some other unknown. Deductions are drawn from the mature of God, the nature of Spirit, the occupies of Things, and from what Reason can postulate. Rising from such mists, the arch so brilliant to look upon is after all a rainbow, not a bridge.

To make his method legitimate, the Philosopher must first prove that a co-ordinate correspondence exists between Nature and his

Intuitional Reason," so that whatever is true of the one must be true of the other. The grologist, for example, proceeds on the assumption that the action of waters was assentially the same indlions of yours mo as it is in the present day; so that whitever can he positively proved of it user, may be confidently america of it then. He subsequently brings evidence to corroborate his assumption by showing that the assumption is necessary and competent to explain facts not otherwise to be consistently explained. But does the Philosopher stand in a similar position? Does he show my ralidity in his preliminary assumption? Does be produce any evidence for the existence of a nexus between his Intuitional Reason and those nonmena or coopera; about which he remons; does he show the probalaility of there being such a correspondence between the two, that what is true of the one may be accepted as probable of the other? Nothing of the kind. He assumes that it is so. He assumes, as a preliminary to all Philosophy, that Intuitional Resson is rumpstent to deliver wedicts, even when the evidence is entirely formished. by itself. He assumes that Intuitions are face to face with Existerces, and have consequently immediate knowledge of them. But this immense assumption, this gratuitons begging of the whole question, can only be permitted after a demonstration that the contract assumption must be false. Now it is certain that we can assume the enature, and assume it on evidence as cogent as that which furnobes his assumption. I can assume that Intuitions are not face to face with Existences; indeed this assumption seems to me by for the most probable; and it is surely as valid as the one it opposes? I call upon the metaphysician to prove the validity of his assumption, or the invalidity of some. I call upon him for some principle of verification. He may tell me as in past years the Hegelions used to tell me, not without impatience) that ' Remon must scrify itself; but unhappily Reuson has no such power; for if it had, Philosophy would not be disputing about first principles; and when it claims the power, who is to nessee for its accuracy, gold exetodiet issue exetodia? If Philosophy is possible, its only basis

^{*} By Intuitional Econom I here wish to express what the Germans call Formings, which they distinguish from Forming, as Coloridge tried to make Englishmen distinguish between Econom and Understanding. The norm Econom is too deeply moved in our language to be twisted into any new discretion, and I hope by the summal "Intuitional Econom" to keep the syndem's attention alive to the fact that by it is designated the process of the sand engaged in transcribental inquiry.

rests on the correspondence between Nature and Intuitional Reason.

But a correct numbris of our intellectual processes will furnish a
solvent which will interly destroy the last sheed of organic basis
out of which Philosophy grows.

Reasoning, if I rightly spacehead it, is the same intellectual process as Perception, with this difference, that Perception is maley. ential respecting objects aversaf, and Reasoning is inferential respecting objects aborat. In the lastly of correct language, sensations and perceptions are almost convertible terms; but if we rigorously separate from our perceptions all those elements not actually given in the momentary sensations, it will be evident that Perception is distinguished from Sessation by the addition of certain inferences ; as when we perceive a substance to be hard, square, colories, secret, etc., from certain inferences rising out of its form, colour, etc., although we do not artually touch, muril, or taste the object. What is this process of inference? It is a presentation before the consciousness of something which has been formerly observed in conjunction with the object, and is therefore supposed to be now actually present in fact, although not present in sensation. I have no sensation of sweetness when I see the Imag of sugarbut the sight of the sugar brings before my consciousness the sweetness, which the sugar will bring to my sensibility when in contact with my tongue. I perceive the sweetness; and I do this by making present to my mind what is absent from sense. I infer that the lump of white substance before my is sugar, as I infer that it rains when I see, foun my similor, nates falling on the streets, In both cases the inference may be wrong. The white substance may be salt; the falling water may be the spray of the gardenhose. But in each and every case of Perception, a something is added to the Sensation, and that something is inferential, or the assumption of some quality present in fact which is not present in SPIIMS.

Reasoning is likewise inferential, but about objects which, although they were formerly given in sense, are now absent altogether. Reasoning is the presentation before the consciousness, of objects which, if actually present, would affect the consciousness in a similar way. It mentally supplies their existence. Thus, when from the wet streets and turbulent gutters I conclude, or infer, that it has rained, I make present to myself the phenomena of falling water in somewhat the same order as the falling water would follow if present. On closely attending to may chain of Rensoning we shall find that if it were possible to realize all the bisks to the chain, i.e. so to place the actual objects in their connected series that we could see them, this mental series would become a visible series, and, in been of reasonings, would afford direct perceptions. Good reasoning is the ideal assemblage of facts, and their re-persentiation to the mind in the order of their actual series. It is seeing with the mind's eye. Bad reasoning will always be found to depend on some of the objects not being mentally present; some links in the claim are dropped or overlooked; some objects instead of being re-presented are left absent, or are presented so imperfectly that the inferences from them are as erroneous as the inferences from imperfect vision are erroneous. Bad reasoning is imperfect to presentation.

This explanation of the intellectual operations is, I believe, novel; should it be accepted, it will light up many obscure questions. But for the persent we must only notice its bearing on Pinlosophy. When the table-turners concluded that electricity was the cause of the table's movement, they did not make present to their minds the real facts of electricity and its modes of operations; otherwise they would have seen that electricity would not turn the table round, and they would have seen this almost us vividly as if a buttery had been then and there applied to the table. Paraday, on the contrary, did make those facts mentally present, so as not to need the actual presence of a battery; and his correct reasoning neglet not be owing to any greater general vigour of ratiseination, but to his greater power of making these porticular factsmentally present. Describe an invention to Dr. Neil Arnott, and he will be able to reason on its practicability, almost as well as if he saw the machine in operation; because he can mentally make present to himself all the details of structure, and from these inferall the details of action, just as his direct inferences would follow the actual presentation of the objects. There are two modes of detecting false logic, and there are but two; either we must reduce the argument to a series of sensations-make the facts in question. visible to sense, and show that the sequences and co-existences of these facts are not what the reasoner asserted them to be, or we must mentally supply the place of this visible demonstration, and by re-presenting the objects before the mind, see where their sequences and co-existences differ from what the remover asserted them to be.

If all Reasoning to the re-presentation of what is now absent but

formerly was present, and can again be made present, -in other words, if the test of accurate reasoning as its reduction to fact, -then is it evident that Philosophy, dealing with temsoendental objects which assault be present, and employing a Method which admits of no verification (or reduction to the test of fact) must be an improsible attempt. And if I am asked how it is that philosophers have reasoned at all on transcendental subjects, since according to my statement they reald only reason by making such subjects present to their minds, the reply is that they could not, and did not, make present to their minds any such subjects at all , the Infinite was really conceived by them as Finite, the Uncombitioned as Coonistioned, Spirit as Body, Noumenon as Phenomenon; for only thus were these things conceivable at all. Thus it is only possible to take the first step in Philosophy by bringing transcendental subjects within the sphere of experience, i.e. making them no longer transcendental. Thus, and thus only, is it possible for us to reason on such topies.

All this will doubtless be atterly denied by mrtaphysicians. They proceed on the assumption that Intuitional Reason, which is indispendent of experience, is absolute and final in its guarantee. The validity of its conclusions is self-justified. Hogel buildly says, "Whatever is rational is real, and whatever is real is rational, dur Ferminitize ist wishlich and das Wiehlichs verwindig. And writers of less metaphysical rigour frequently news the axiom, and always imply it. Thus in a remarkable article on Sir W. Hamilton, which appeared in the Prospective Review (understood to be by Mr. James Mactingan), we read that Plakosophy in England has definited down to mere Psychology and Logic, whoreas its proper luniness is with the notions of Time, Space, Substance, Soul, God; to pronounce upon the validity of these notions as revelations of real Existence, and, if they be retiable, use them as a bridge to cross the charafrom relative Phospht to absolute Being. Once safe arrow, and guing about it in that realm, the mind stands in presence of the objects of Outology.

'Once safe arrows;' this is indeed the step which constitutes the whole journey; unhappily we have no means of getting safe across; and in this helphosoness we had better hold conselves alonf from the attempt. If a man were to discourse with amplitude of detail and chapteres of conviction respecting the inhabitants of Sirius, setting forth in explicit terms what they were like, what embryonic forms they passed through, what had been the course of their social coolintion and what would be its ultimate stage, we should first sek, And pray, Sir, what evidence have you for these particulars? what pustanter do you offer for the validity of these conclusions? If he replied that Intuitional Reason assured him these things must be so from the inhurent necessities of the ease, he having logically evalual these conclusions from the data of Reason; we should appose him to be either attempting to mystify us, or to be hopelessly insure. Now would this poinful impression be removed by his precoding to affirm that he never thought of trusting to such fallacious arguments as could be familiated by observation and experiment—tests wholly imapplicable to objects so remote from all experience, objects accessible only by Reason.

In the present day, speculations on Metaphysics are not, intrinsically, more rational than speculations on the development of animated beings peopling Sirius; may, however masked by the ambiguities of language and old familiarities of speculation, which seem to justify Metaphysics, the attempt of the Philosopher is really less rational, the objects being even less accessible. Parchology has taught us one lesson at least, namely, that we cannot know causes and essences, because our experience is limited to sequences and phenomera. Nothing is gained by despising Experience, and seeking refuge in Intuition. The senses may be imperfect channels, but at any rate they are in direct communication with their objects, and are true up to a certain point. The error among from one sense may be corrected by another; what to the eye appears round, the hand feels to be squary. But Intuition has no such safeguard. It has only itself to correct its own errors. Holding itself aloof from the enroborations of Sense, it is alsof from all possible verification, because it cannot employ the test of confrontation with fact.

This consistion has been growing slowly. It could never have obtained general acceptance until Philosophy had proved its incopacity by centuries of failure. In the course of our History we shall are the question of Certitude continually forced upon philosophers, always producing a crisis in speculation, although always again cluded by the more eager and impatient intellects. Finally, these repeated crises disrugage the majority of mands from so Lopeless a pursuit, and set them free to follow Science which has Certitude. If our History has any value, it is in the emphatic sanction it that gives to the growing neglect of Philosophy, the growing preference for Science. In the former edition I adopted the common view which regards the distinction between Philosophy and Science

as lying in the pursuit of different objects. Philosophy aspires to the knowledge of sessuces and courses. Positive Science aspires only to the knowledge of Level. The one pretends to discover what things are, in themselves, apart from their appearances to sense; and spheace they came. The other only wishes to discover their make persual, observing the constant considerers and mercusions of phenomena among themselves, and generalizing them into some one Lew.' But this I no longer regard as the whole truth. It does not discriminate between scientific and metaphysical speculation on subjects within the scope of Science; such for instance as the photographic of life, or such as table-turning. The sital and fundamental difference between the two orders of speculation does not be in their objects, but in their methods. A priori, indeed, we might conclude that such a circumscription of the aims of speculation as is implied in Science would necessarily bring about a corresponding change in Method; in other words, that men having once relinquished the pursuit of assurces and cames would have been forced. to adopt the Method of Verification, because that alone was competest to lead to certifieds. But History tells a different tale. Men did not adopt the Method of Verification because they had previoasly relinquished all attempts to practrate into causes; but they relinquished all attempts to genetrate into causes because they found that the only Method which could lead to certainty was the Methad of Verification, which was not applicable to causes. Hence a gradual charaction followed the gradual rise of each particular science; till at last, in the doctrine of Auguste Courte, all inquiry is limited to such objects as admit of verification, us one way or noother.

The Method of Verification, let us never forget, is the one grand characteristic distinguishing Science from Philosophy, modern inquiry from united inquiry. Of the ancients, Footenelle felicitously says: 'Sourcet de faibles convenuess, de petites similitudes, dos discretes tagnes et confus, passent shor eux pour des preuses : auxiries ar less code à prouver.' The proof is, with us, the great object of solicitude. We demand corrainty) and as the course of lemma evolution shows cortainty to be attainable on no other Method dian the one followed by Seismon, the conformation of Metaphysics in incrimable.

Grand, todeed, has been the effort of Philosophy; great the part it has played in the drawn of civilization; but the part is played out. It has left the legacy bequeathed by every great effect. It has enriched all succeeding ages, but its work is accomplished. Men have grown less presumptuous in speculation, and inconceivably more during in practice. They no longer attempt to penetrate the mystery of the universe, but they explore the universe, and yoke all natural forces to their splendid chariot of Progress. The marvels of our age would have seemed more incredible to Plato, than were the Arabian Nights to Bentham; but while Science thus enables in to realize a wonderland of fact, it teaches us to regard the unlessitating tementies of Plato and Plotinus as we regard the efforts of a child to group the moon.

Philosophy was the great initiator of Science. It reserved the nobler part of man from the dominion of brutish spathy and helpless ignorance, nourished his mind with mighty impulses, exercised it in magnificent efforts, gave him the muslaked, unslakeable thirst for knowledge which has dignified his life, and enabled him to multiply tenfold his existence and his happiness. Having done this, its part is played. Our interest in it now is purely historical.

The purport of this history is to show how and why the interest in Philosophy has become purely historical. In this purport lies the principal novelty of the work. There is no other History of Philosophy written by one disbelieving in the possibility of mataphysical certitude.

§ IL LIBERTS OF THE WORK

Having explained what is the first purpose of this History, and makes it subservient to the general History of Hamanity rather than to any philosophical system, I will now briefly indicate the reasons which, apart from the limitations of my own knowledge, have determined the selection of the illustrative types. Brucker, having no purpose beyond that of accumulating materials, includes in his History the operalations of Anteddisvian, Scythian, Personand Egyptian thinkers. Mr. Maurice, who has a purpose, also includes Hebrew, Egyptian, Handoo, Churese, and Persian philosophies.* Other historians vary in their limits, upon not very intelligible grounds. I begin with Greece, because in the history of Greeian thoughs all the spechs of speculative development are distinctly traceable; and as I write the Biography of Philosophy, it is mough for my purpose of anywhere I can find a distinct filiation.

^{*} Moral and Metophysical Philosophy, part is, second edition, 1850; a work of singular fuscination and great eigensity.

of ideas. Rome never had a philosophy of its own; it added no new idea to the ideas horrowed from Greece. It occupies no pince therefore in the development of Philosophy, and is omitted from

this Biography.

The omission of the East, so commonly believed to have excressed extensive and profound suffuence on Greece, will to many readers erem less excessible. But to unfold the arguments which justify the outselon here, would require more space than can be spared in this Introduction. It is questionable whether the East had any Philosophy distinct from its Religion; and still more questionable whether Greece borrowed its philosophical ifexe.* True it is that the Greeks themselves supposed their early teachers to have drunk at the Eastern formt. True it is that modern orientalists, on fast becoming acquainted with the doctrines of the Eastern sages, recognized strong resemblances to the doctrines of the Greeks; and a Röthy finds Aristotle to be the first independent tlänker, all his predecessors having drawn their speculations from the Egyptina; while a Gladisch ! makes it quite obvious (to himself) that the Pythogorean system is nothing but an adoption of the Chinese, the Heraelitic system an adoption of the Portian, the Elegtic of the Indian, the Empedoclean of the Egyptian, the Anasagorean of the Jewish. But neither the vegue tradition of the Gracks, nor the fallacious ingrunity of moderns, weigh heavy in the scale of historical criticism. It is true that coincidences of thought are to be found between Greeian and many other systems; but onincidences are no evidence of street filiation; and he has studied the history of speculation to little purpose who is not thoroughly familiar with the natural tendency of the mind to sweep into the same tracks, where others have been before, where others will find themselves afterwards. Moreover, many of these coincidences, upon which historical theories are based, turn out, on close inspection, to be merely verbal, or at the best approximative. Thus the physical speculations of the Greeks often coincide in expression with those of modern science. Does this prove that the moderns borrowed their science from the ancients? M. Datens thought so, and has written an eradite but singularly erroneous book to promit. Democritus asserted the Milky Way to be only a cluster of stars;

^{*} I have elsewhere stated reasons for this belief.—Editabergi Rivino, April 1847, p. 352 sq.

¹ Geschichte weerer abendliestischen Philasphie, v. p. 225 og.

Die Religion und die Philosophie in übrer meltywerk. Entwickelung

but the assertion was a more guess, wholly without proof, and gained an acceptance. It was Galileo who discoursed what Democratus guessed. Thus also Empedocles, Pythagoras, and Plato are said to lowe been perfectly sequainted with the doctrine of gravitation; and this absurdity is made definive by dint of forced translations, which elicit something like coincidence of expression, although every compotent person detects the want of coincidence in the ideas."

Waiving all discussion of disputable and disputed points, it is enough that in Greece from the time of Thales, and in Europe from the time of Descartes, a regular development of Philosophy is traceable, quite sufficient for our purpose, which is less that of mornating the lives and expounding the opinious of various thinkers, than of showing how the course of speculation necessarily brought about that radical change in Method which distinguishes Philosophy from Science. In pursuance of such an aim it was perfectly needless to include any detailed norrative of the speculations which, under the some of Scholasticism, occupied the philosophical activity of the Middle Agos. Those speculations were either subordinate to Theology, or were only instrumental in perfecting philosophical language; and in this latter respect the historian of Philosophy is no more called upon to notice them, than a writer on the set of War would be called upon to give a history of the armourers of Milan or the sweed-manufacturers of Tolodo.

The same principle which determines the selection of Epochs also determines the selection of the points of doctrine to be expounded. It is obvious that in nothing like the space to which this work is limited could even the larest outline of all the opinious held by all the philosophers be crowded; not would ten times the space suffice for an exposition of those opinious with anything like requisite detail. Brucker's vast compilation, and Ritter's laborious volumes, are open for any student desirous of more detailed knowledge; but even they are imperfect. My purpose is different; I write the Biography, not the Annals of Philosophy, and I am more concerned about the dectrines peculiar to each thinker than about those held by him in common with others. If I can ascertain and make intelligible the doctrines which formed the additions of each thinker to the previous stock, and which helped the coolution of certain

^{*} Kursten expresses the distinction well: 'Empedagles poetici advadentidate quod tet sociale protes mathematicis reticulars demunifratum est a Newtone.'—Philis. Gracerous Operum Belignia, p. 20.

germs of philosophy, collateral opinious will used only such mention as is necessary to make the whole course of speculation intelligible. Thus limited in scope, I may find myself meter at case in the discussion of those points on which attention should be fastened. More space can be given to fundamental topics. In restricting myself to Descartes, Spinous, and Kant, without noticing Cartesians, Spinousts, and Kantians, I also so the same principle restrict myself to what is in each thinker peculiar to him, and directly allied to the course of philosophical development. The student who needs the Panderts of Philosophy will have to look elsewhere; this work only pectends to be a Summary. A

BIOGRAPHICAL HISTORY OF PHILOSOPHY.

PART L.
ANCIENT PHILOSOPHY.



FIRST EPOCH.

SPECULATIONS ON THE NATURE OF THE UNIVERSE.

CHAPTER 1. THE PHYSICISTS.

\$ 1. Tomes.

A LTHOUGH the events of his life, no less than the precise doctrines of his philosophy, are shreaded in mystery, and belong to the domain of falile, nevertheless Tholes is very justly considered as the father of Greek Speculation. He made an epoch. He had the franciation-stone of Greek philosophy. The step he took was small, but it was decisive. Accordingly, although nothing but a few of his tenets remain, and those tenets fragmentary and incoherent, we know enough of the general tendency of his doctrines to speak of him with some degree of certitude.

Thales was born at Miletus, a Greek colony in Asia Minor. The date of his hirth is extremely doubtful; but the first year of the 36th Olympini (a. c. 62%) is generally accepted as correct. He belonged to one of the most illustrious families of Phonoria, and took a conspicuous part in all the political affairs of his country,—a part which carned for him the highest esteem of his fellow-extrans. His immense activity in politics has been denied by later writers, as inconsistent with the tradition, countemated by Pinto, of his loving spent a life of solitule and meditation; while on the other hand his affection for solitule has been questioned on the ground of his political activity. It seems to us that the two things are perfectly compatible. Meditation does not necessarily unfit a man for action; any does an active life absorb all his time, having him none for meditation. The wise man will strengthen himself by meditation before he acts; and he will act, to test the truth of his opinious.

Miletus was one of the most flourishing Greek colonies; and at the period we are now speaking of, before either a Persian or a

Lydian yoke had enashed the energies of its population, it was a fine some for the development of namual energies. Its commerce both by sea and fund was immerse. Its political constitution afforded the finest opportunities for individual development. Thales both by birth and education would unturally be fixed there, and would not travel into Egypt and Crebs for the prosecution of his undies, as some unintain, although upon no sufficient authority. The only ground for the consecture is the fact of Thules being a preficient in mathematical knowledge; and from very early times, as we see in Herodotus, it was the fashion to derive the origin of almost every branch of knowledge from Egypt. So little consistency is there horever in this marrative of his voyages, that he is said to have notoushed the Egyptims by showing them how to measure the height of their pyramids by their shadows. A untires so easily estonished by one of the simplest of mathematical problems could have had little to teach. Perhaps the strongest proof that he never travelled into Egypt-or that, if he travelled three, he never come into communication with the priests-is the absence of all trace, however slight, of any Egyptian doctrine in the philosophy of Thales which he might not have found equally well at home.

The distinctive characteristic of the Ionian School, in its first period, was its inquiry into the constitution of the universe. Thules opened this inquiry. It is commonly said. Thales taught that the principle of all things was water." On a first glance, this will perhaps appear a mere extravagance. A maile of pity may greet it, accompanied by a reflection on the smiler's part, of the unlikelihood of his over believing such an absurdity. But the serious student will be slow to accuse his predecessors of shour and transparent absurdity. The history of Philosophy may be the history of errors; it is not a history of fullies. All the systems which have gained acceptance have had a pregnant meening, or they would not have been accepted. The meaning was proportionate to the opinions of the spech, and as such is worth penetrating. Thales was our of the most extraordinary men that over lived, and produced an extraordinary revolution. Such a man was not likely to have summented a philosophical thought which any shiftd might have refuted. There, was deep meaning in the thought, to him at least. Above all, there we deep meaning in the attempt to discover the origin of things. Let us endeavour to penetrate the meaning of his thought a let as ser if we cannot in some shape trace its rise and growth in his mind

It is characteristic of philosophical minds to reduce all imaginable diversities to one principle. As it is the inevitable tendency of religious speculation to reduce polythesism to monothrism, —to generalize all the supernatural powers into one expression, so also was it the tendency of early philosophical speculation to reduce all possible modes of existence into one generalization of Existence itself.

Thales, speculating on the constitution of the universe, could not but strive to discover the one principle—the primary Fact—the antalance, of which all special existences were but the modes. Seeing around him constant transformations—birth and death, change of shape, of size, and of mode of existence—he could not regard may one of these variable states of existence as Existence itself. He therefore asked himself, What is that invariable Existence of which these are the corrected states? In a word, What is the beginning of things?

To not this question was to open the era of philosophical inquiry. Hitherto noen had contented themselves with accepting the world as they found it; with believing what they saw; and with adoring what they could not see.

Thales felt that there was a sital question to be answered relative to the beginning of things. He looked around him, and the result of his meditation was the conviction that Moisture was the Beginning.

He was impressed with this idea by examining the constitution of the curth. There also be found moisture everywhere. All things he found nourished by moisture; warmth itself he declared to proceed from moisture; the seeds of all things are moist. Water when condensed becomes earth. Thus consinced of the universal presence of water, he declared it to be the beginning of things.

Thales would all the more readily adopt this notion from its harmonizing with ancient opinions; such for instance as those expressed in Hesiod's Theogony, wherein Occurs and Thetis are regarded as the parents of all such deities as had any relation to Nature. 'He would thus have performed for the popular religion that which modern acience has performed for the book of Genesis: explaining what before was enigmatical.'

It is this which gives Thales his position in Philosophy. Aristotle calls him o vic vasnivy, approve decomplac, the man who made the

^{*} Beri, Contant, De Poly/brime Ronnin, i 167.

first attempt to establish a physical Boginning, without the assistance of myths. He has consequently been accused of Atheism by modera writers; but Atheism is the growth of a much later thought, and one under no pretence to be attributed to Thales, except on the negative evidence of Aristotle's silence, which we conceive to be directly counter to the supposition, since it is difficult to believe Aristotle would have been silent had be thought Thales believed or dishelieved in the existence of mything deeper than Water, and prior to it. Water was the slove, the beginning of all. When Cicero, following and followed by writers far removed from the times of Tholes," says that "he held water to be the beginning of things, but that God was the mind which created things out of the water," he does violence to the chronology of spondation. We agree with Herel that Thales could have had no conception of God as Intelligence, since that is the conception of a more advanced philosophy. We doubt whether he had any conception of a Formative Intelligence or of a Creative Power. Aristotlet very explicitly denies that the old Physicists made any distinction between Matter (6 The soi to braselsees) and the Moving Principle or Efficient Couse (6 days) von surfaces); and be further adds that Americans was the first who arrived at the conception of a Formative Intelligence. ! Thales believed in the Gods and in the generation of the Gods: they, as all other things, had their origin in water. This is not Atheism, whatever else it may be. If it be true that he held all things to be living, and the world to be full of demons or Gods, there is nothing inconsistent in this with his view about Mosture as the origin, the starting-point, the primary existence.

It is needless however to discuss what were the particular opinions of a thinker whose opinions have only reached us in fregments of macritical tradition; all we curtainly know is that the step taken by Thales was twofold in its influence:—first, to discover the Beginning, the prisas underic of all things (\(\tilde{a}\) \(\tilde{a}\) \(\tilde{p}\)\(\tilde{q}\)); secondly, to select from among the elements that element which was most potent and ournipresent. To those acquainted with the history of the human mind, both these notions will be significant of an entirely near era.

^{*} And uncritically followed by many moderns who test a difficulty is playing themselves as the point-of-view of encient speculation.

⁺ Article Monagel, E. 3.

It will presently be seen that Diogenes was the first to conceive this.

§ II. ANAXIMENES.

Anaximander is by most historium placed after Thales. We agree with Ritter in giving that place to Aussimenes. The reasons on which we ground this arrangement are, first, that in so doing we follow our safest guide, Aristotle; secondly, that the doctrines of Assaximenes are the development of those of Thales; whereas Amximander follows a totally different line of speculation. Indeed, the whole ordinary arrangement of the Ionian School seems to have proceeded on the conviction that each disciple not only contradicted his master, but also returned to the doctrines of his master's teacher. Thus Anaximizadey is made to succeed Thales, though quite opposed to him; whereas Amerimenes, who only carries out the principles of Thales, is made the disciple of Anaximmeder. When we state that 212 years, i.e. six or seven generations, are taken up by the lives of the four individuals said to stand in the successive relations of teacher and pupil, Thales, Anaximumder, Anaximumes, and Anaxagoess, the reader will be able to estimate the value of the traditional relationship.

The truth is, only the names of the great lenders in philosophy were thought worth preserving; all those who merely applied or extended the doctrine were very properly consigned to obliviou. This is also the principle upon which the present history is composed. No one will therefore denver to our placing Anaximones second to Thales: not as his disciple, but as his historical successor; as the man who, taking up the speculation where Thales and his disciples lieft it, transmitted it to his successors in a more developed form.

Of the life of Anaximenes nothing further is known than that he was been at Miletos, probably in the 63rd Olympiad (s. c. 549), others say in the 58th Olympiad (s. c. 548), but there is no possibility of accurately fixing the date. He is said to have discovered the obliquity of the Ecliptic by means of the gromon.

Pursuing the method of Thales, he could not satisfy himself of the truth of his doctrine. Water was not to him the most significant element. He felt within him a something which moved him he knew not how, he knew not why: something higher than himself; invisible, but ever-present: this he called his life. His life he believed to be nir. Was there not also without him, no loss than within him, an ever-moving, ever-present, invisible air? The nir which was within him, and which he called Life, was it not a part of the nir which was without him? and, if so, was not this air the Beginning of Things? He looked around him, and thought his conjecture was confirmed. The air secured universal,* The earth was as a broad leaf resting upon it. All things were produced from it; all things were resolved into it. When he breathed, he does in a part of the universal life. All things were nourished by air, as he was nourished by it.

To Ameximenes, as to most of the acciruts, Air breathed and expired seemed the very stream of life, holding together all the heterogeneous substances of which the body was composed, giving them not only unity, but force, vitality. The belief in a living world—that is to say, of the universe as an organism—was very ancient, and Assaximeters, generalizing from the phenomena of infividual life to universal life, made both dependent on Air. In many respects this was an advance on the doctrine of Thales, and the reader may musse bouself by finding its coincidence with some speculations of nodern science. A grave chemist like Damas can say, 'Lee Plantes et les Animusz dérivent de l'air, ne sont que de l'air condensé, ils réseared de l'six et y reforment;' and Liebig, in a well-known passage of the Chemical Letters, eloquently expresses the same idea.

A III. DESCRIPTS OF APORTOSIA.

Diogenes of Apollonia is the proper successor to Araximenes, although, from the uncritical arrangement usually adopted, he is made to represent no epoch whatever. Thus, Tennemann places him after Pythagoras. Hugel, by a strange oversight, says that we know nothing of Diagenes but the same.

Diogenes was born at Apollonia, in Crete. More than this we are numble to state with certainty; but as he is said to have been a contemporary of Anatagoras, we may assume him to have flourished about the 80th Olympiad (s. c. 660). His work On Nobre was extant in the time of Simplicius (the sixth century of our em), who extracted some passages from it.

Disgrees adopted the tenet of Anaximenes respecting Air as the origin of things; but he gave a wider and deeper signification to the tenet by attaching himself more to its analogy with the Soul.†

Struck with the force of this analogy, he was led to push the con-

⁺ When Anatomers speaks of Air, as trives Theles speaks of Water, we must not independently these elements as they appear in this or Mod determinable from on earth, but as Water and Air programs with vital energy and capable of indicite remountations.

⁺ By Souli (\$\phi_{\sigma_{i}}(\phi)\) we must understand Taile in its most general securing.

clusion to its ultrante limits. What is it, he may have asked honself, which constitutes Air the origin of things? Clearly its sital force. The Air is a Soul; therefore it is living and intelligent. But this Force or Intelligence is a higher thing than the Air, through which it manifests itself; it must consequently be prior to point of time; it must be the dogst philosophers have sought. The Universe is a living being, spontaneously evolving itself, deriving its transformation from its own situlity.

There are two remarkable points in this conception, both indicative of very great progress in speculation. The first is the attribute of Intelligence, with which the dopp is endowed. Anoximenes consolered the primary substance to be an animated substance. Air was Life, in his system; but the Life did not necessarily imply Intelligence. Diogenes saw that Life was not only Force, but Intellipence; the Air which stirred within him not only prospered, but nutracted. The Air, as the origin of all things, is necessarily an eternal, imperishable substance; but, as soul, it is also necessarily endowed with consciousness. "It knows much," and this knowledge is another proof of its being the primary substance; ' for without Reason," he says, "it would be impossible for all to be arranged duly and proportionately; and whatever object we consider will be found to be arranged and pedered in the best and most beautiful manner." Order can result only from Intelligence; the Soul is therefore the first (depo). This conception was undoubtedly a great one; but that the reader may not exaggerate its importance, nor suppose that the rest of Diogenes' doctrines were equally reasonable. and profound, we must for the sake of preserving historical truth advert to one or two of his applications of the conception. Thus :-

The world, as a living unity, must like other individuals derive its rital force from the Whole: Lence he attributed to the world a set of respiratory organs, which he familed he discovered in the stars. All creation and all material action were but respiration and exhalation. In the attraction of maintain to the san, in the attraction of iron to the magnet, he equally saw a process of respiration. Man is superior to brutes in intelligence because he talkades a purew air than brutes who how their heads to the ground.

These some attempts at the explanation of phenomena will suffice

mather than Mind in the modern sense. That the treatise of Araboth waps despite is a treatise on the Vetal Petaciple, including Mind, not a treatise on Psychology.

to show that although Diogenes had made a large stride, he had accomplished serv little of the journey.

The second remarkable point indicated by his system is the manner in which it closes the inquiry opened by Thules. Thules, starting from the conviction that one of the four elements was the origin of the world, and Water that element, was followed by Assertments, who thought that not only was Air a more universal element than Water, but that, being hile, it must be the universal Life. To him succeeded Diagenes, who saw that not only was Air Life, but Intelligence, and that Intelligence must have been the First of Things.

We concur therefore with Ritter in regarding Diogenes as the last philosopher attached to the Physical method; and that in his system the method receives its consummation. Having thus traced one great line of speculation, we must now east our eyes upon what was being contemporancously evolved in another direction.

CHAPTER II.

THE MATHEMATICIANS.

§ I. ANAXIMANDER OF MILETER.

A S we now, for the first time in the history of Greek Philosuphy, most with contemporaneous developments, the obsereation will not perhaps be deemed soperfloors that in the earliest times of philosophy, historical evidences of the reciprocal milurnee of the two lines either entirely fail or are very uncerthy of credit; on the other hand, the internal evidence is of very limited value, because it is impossible to prove a complete ignorance in one, of the ideas evolved and carried out in the other; while any argument drawn from an apparent acquaintance therewith is far from being extensive or tenable, since all the olden philosophers draw from one common source—the autitual habit of thought. When indeed these two directions had been more largely pursued, we shall find in the controversial notices sufficient evidence of an active confliet between these very opposite views of nature and the universe, In truth, when we call to mind the inadequate means at the command of the earlier philosophers for the dissemination of their opinious, it appears extremely probable that their respective systems were for a long time known only within a very marrow circle. On the supposition however that the philosophical impulse of these times was the result of a real national want, it becomes at once perhable that the various elements began to slow themselves in logic nearly at the same time, independently and without any external connection

The chief of the school we are now about to consider was Anaximender, of Miletos, whose birth may be dated in the 42nd Olympials (n. c. 610). He is sometimes called the frued and sometimes the disciple of Thales. We prefer the former relation; the latter is at any rate not the one in which this history can regard him. His reputation, both for political and scientific knowledge, was very great; and many important inventious are ascribed to him, amongst

^{*} E2566 h 245;

others that of the son-dist and the sketch of a geographical map. His calculations of the size and distrace of the beavenly bodies were committed to writing in a small work which is said to be the earliest of all philosophical writings. He was passionately addicted to mathematics, and framed a series of geometrical problems. He was the leader of a colony to Apollistia; and he is also reported to have resided at the court of the Tyrant Polycestes, in Samos, where also lived Pythagonas and Anacreous.

No two historians are agreed in their interpretation of Amazimander's doctrines; sew indeed are agreed as to the historical position he is to occupy.

Anasimum of the stated to have been the first to use the term \$\delta_p\chi\$ for the Beginning of things. What he meant by this term principle is variously interpreted by the ancient writers; for although they are maximous in stating that he called it the infinite (vi dwelpos), what he understood by the infinite is yet undecided.*

On a first view, nothing can well be less intelligible than this tenet: "The Infinite is the origin of all things." It either books like the monotheism of a far later date, the like the word-jugglary of mysteism. To our minds it is neither more nor less difficult of comprehension than the tract of Thales, that 'Water is the origin of all things.' Let us cast ourselves back in imagination into those early days, and see if we cannot account for the rise of such an opinion.

On viewing Amazimander side by side with his great predecessor and friend, Thales, we cannot but be struck with the reclinively abstract tendency of his speculations. Instead of the meditative Metaphysician, we see a Geometrician. Thales, whose famous maxim, "Know thyself," was essentially concrete, may serve as a contrast to Assaximander, whose axiom, "The Infinite is the origin of all things," is the ultimate effort of abstraction. Let us concede to how this tendency; let us see in him the geometrician rather than the moralist or physicist; let us endeavour to understand how all things presented themselves to his mind in the abstract form,

^{*} Bitter, i. 267.

[†] Which is certainly could not have been. To prevent my misconception of the kind, we may merely observe that the Infinite here meant, was not seen the Limithes Power, much less the Limithes Mind, implied is the modern conception. In Anaxaguras, who fived a century later, we find of dreaps to be so above than enumers.—See Simplician, Phys. 33, 5, quoted in Bitter.

and how mathematics was the science of sciences, and we shall then perhaps be able to uniforetand his tenets.

Thiles, in searching for the origin of things, was led, as we have seen, to maintain Water to be that origin. But Auximizeder, accustomed to view things in the abstract, could not accept so concrete a thing as Water: something more ultimate in the analysis was required. Water itself, which in common with Thales he held to be the material of the universe, was it not subject to conditions? What were those conditions? This Moisture, of which all things are made, does it not come to be moisture in many instances? And can that which is the origin of all, ever charge, ever be confounded with individual things? Water itself is a Thing; but a Thing cannot be All Things.

These objections to the doctrine of Tholes caused him to reject, or rather to modify, that doctrine. The άρχη, he said, was not Water; it must be the Unlimited All, τὸ ἀναφας.

Vague and profitless enough this theory will doubtless appear. The abstraction "All" will seem a more distinction in words. But in Greek Philosophy, as we shall repeatedly notice, distinctions in soreds were generally equivalent to distinctions in things. And if the reader reflects how the mathematician, by the very nature of his sease, is led to regard abstractions as catities,—to separate form, and treat of it as if it alone constituted body,—there will be no difficulty in conceiving Amazimumder's distinction between all Finite Things and the Infinite All.

It is thus only we can explain his tenet; and this explanation seems beene out by the testimony of Aristotle and Theopherstus, who agree, that by the Infinite he understood the multitude of circumentary parts out of which individual things issued by separation. 'By separation.' the phrase is significant. It means the passage from the abstract to the concrete,—the All realising itself in the Individual Thing. Call the Infinite by the name of Existence, and say, 'There is Existence per se, and Existence per afine'; the former as Existence, the ever-living fountain whence flow the various saiding Things.' In this way we may, perhaps, make Anaximander's menting intelligible.

Let us now hear Ritter. Anaximmader is 'represented as argaing that the primary substance must have been infinite to be allsufficient for the limitless variety of produced things with which we are encompassed. Now, although Aristotle especially characterizes this infinite as a mixture, we must not thank of it as a more qualitiplicity of primary material elements; for to the mind of Anaximumder it was a Unity immortal and imperishable—an ever-producing energy. This production of individual things he derived from an energal works of the Infinite.

The primary Being, according to Anoximander, is unquestionably a Unity. It is One yet All. It comprises within itself the multiplicity of elements from which all mundome things are composed; and these elements only need to be separated from it to appear as separate phenomena of nature. Creation is the decoaposition of the Infinite. How does this decomposition originate? By the exernal motion which is the condition of the Infinite. 'He regarded,' says Briter, 'the Infinite as being in a constant state of incipirury, which, however, is nothing but a constant secretion and concretion of certain immutable elements; so that we might will say, the parts of the whole are constantly changing, while the whole is mechangeable.'

The idea of elevating an abstraction into a Being—the origin of all things—is baseless enough; it is as if we were to say, 'There are numbers 1, 2, 3, 20, 80, 100; but there is also Number in the abstract, of which these individual numbers are but the concrete realization; without Number there would be no numbers.' Yet so difficult is it for the human mind to direct itself of its own abstractions, and to consider them as no more than as abstractions, that this error lies at the root of the unjority of philosophical systems. It may help the reader to some tolerance of Anaximander's error to learn that celebrated philosophers of modern times, Hegel and others, have maintained precisely the same tensi, though somewhat differently woulded: they say, that Creation is God passing into activity, but not exhausted by the act; in other mords, Creation is the sameless criminae of God; timite Things are but the eternal motion, the samiforce of God; timite Things are but the eternal

Austimately separated himself from Thales by regarding the abstract as of higher significance than the concrete; and in this tendency we see the origin of the Pythagorean school, so often called the mathematical school. The speculations of Thales tended towards discovering the material constitution of the universe; they seem bounded, in some degree, upon an induction from observed facts, however imperfect that induction might be. The speculations of Australian stern seems of an except the seems of pure dislocation.

As an example of this mathematical tendency we may alliade to

his physical speculations. The central point in his cosmoporia was the earth: for, being of a cylindrical form, with a base in the ratio 1 : 3 to its altitude, it was retained in its centre by the aid and by the equality of its distances from all the limits of the world.

From the foregoing exposition the Beader may judge of the propriety of that ordinary historical arrangement which places Ameximander as the successor of Thales. It is clear that he originated pair of the great lines of speculative inquiry, and that one, perhaps, the most curious in all antiquity. By Thales, Water, the origin of things, was held to be a real physical element, which in the hands of his successors became gradually transformed into a merely representative emblem of something wholly different (Life or Mind) , and the element which lent its name as the representative was looked upon us a secondary phenomenou, derived from that primary force. of which it was the earliette. Water was the real primary element with Thales; with Diogenes, Water (having previously been displaced for Air) was but the emblem of Mind. Auximander's conception of the All, though abstract, is nevertheless to a great degree physical: it is A9 Thisgs. His conception of the Infinite was not ideal; it had not passed into the state of a symbol; it was the more Marriotism of the primary fact of existence. Above all, it involved no conception of intelligence execut as a mandane finite thing. His to Surgest was the Infinite Existence, but not the Infinite Mind. This later development we shall meet with hereafter in the Eleatics.

§ П. Рутилиовая.

The life of Pythagoens is enshroused in the dim magnificence of legends, from which the attempt to extricate it is hopeless. Certain general indications are doubtless to be trusted; but they are for and vague.

As a specimen of the trouble necessary to withe any one point in this biography, we will here cite the various dates given by ancient authors and modern scholars as the results of their inquiries into his birth. Diodorns Sieulus axys 61st Olympial; Choment Alex-62nd OL; Euseless, 65rd or 64th OL; Stanley, 53rd OL; Gale, 60th OL; Daeier, 47th OL; Bentley, 13rd OL; Lloyd, 43rd OL; Dodwell, 52nd OL; Bitter, 10th OL; Thirlwall, 51st OL; so that the accounts vary within the limits of eighty-four years. If we must make a choice, we should decide with Bentley; not only from respect for that magnificent scholar, but because it agrees with the pechable date of the birth of one known to have been Pythagoras's friend and contemporary, Austinauder,

Pythogons is usually chosed amongst the great founders of Mathematics; and this receives confirmation from what we know of the general scope of his labours, and from the statement that he was chiefly occasied with the determination of extension and gravity, and measuring the ratios of musical tones. His science and skill are of course abundly exaggerated, as indeed is every portion of his tife. Fable assigns him the place of a saint, a worker of miracles, and a teacher of more than human wisdom. His very birth was marvellous; some accounts making him the son of Hermes. others of Apollo: in proof of the latter, he is said to have exhibited a golden thigh. With a word he tamed the Damian bear, which ous laying waste the country; with a whisper he restrained an ox from decouring beans. He was heard to lecture at different places, such as Metapoutum and Tauaminium, on the same day and at the same hour. As he crossed the river, the river-god saluted him with 'Hail, Pythagoras I' and to him the harmony of the Spheres was andible music.

Fablu embrines these wonden. But that they could exist, even as legendary love; is significant of the greatness of Pythogoras. In is well said by Sir Lytton Bulver that a not only all the traditions represting Pethagoras, but the sertain fact of the mighty effect that in his single person he afterwards wrought in Italy, prove him also to have possessed that numeless art of making a personal inpression upon mankind, and creating individual cutlensiasm, which is pressure to those who obtain a moral command, and are the founders of sects and justitutions. It is so much in conformity with the manners of the time and the objects of Pythagoras, to Leliene that he diffigratly explored the ancient religious and political systems of Greece, from which he had been long a stranger, that we cannot reject the traditions (however disfigured with fable) that he visited Dries, and affected to receive instructions from the pious ministrants of Delphi." It is no ordinary man whom Pable exalts into its poetical region. Whenever you find romantic or mimentons deeds attributed, be certain that the hero was great enough to sustain the weight of this crown of fabrilous glory.

But the fact thus indicated is a refutation of the ordinary trasition of his having borrowed all his learning and philosophy

[&]quot; Albert, its Plan and Foll, 2, 412.

from the East. Could not so great a usua dispense with foreign teachers? Assuredly be could, and did. But his countrymen, by a very natural process of thought, looked upon his greatness as the result of his Eastern education. No usus is a prophet in his own country; and the imaginative Greeks were premiurly proce to meet the distant and the foreign with striking attributes. They could not believe in wisdom springing up from amongst them; they turned to the East as to a test and unknown region, whence all novelty, even of thought, must come:

When we consider, as Bitter observes, how Egypt was peculiarly the wonder-hand of the olden Greeks, and how, even in later times, when it was so much bester known, it was still, as it is to this day, so calculated to excite own by the singular character of its people, which, reserved in itself, was always obtuiling on the observer's attention through the suspendous structures of national architecture, we can easily imagine how the Greeks were list to establish some connection between this mighty East and their great Pythagoras.

But, although we can by no means believe that Pythagoras was much indebted to Egypt for his doctrines, we are not sceptical as to the account of his having travelled there. Sames was in constant intercourse with Egypt. If Pythagorus had travelled into Egypt, or indeed listened to the relations of those who had done so, he would have thereby obtained as much knowledge of Egyptian customs as appears in his system; and that without having had the least instruction from the Priesthood. The doctrine of motempsychoose was a public doctrine with the Egyptians , though, as Ritter says, he might not have been indebted to them even for that. Puneral customs and abstinence from particular kinds of food were things to be noticed by any traveller. But the fundamental objection to Pythagoras having been instructed by the Egyptian Priests, is to be sought in the constitution of the priestly caste itself. If the prirate were so junious of instruction as not to bestow it even on the most fannined of their countrymen unless belonging to their ende, her unreasonable to suppose that they would bestor it on a stranger, and one of a different religion !

The ancient writers were sensible of this objection. To get rid of it they invented a story which we shall give as it is given by Bruelon. Polycrates was in friendly relations with Amasis, King of Egypt, to whom he sent Pythogorus, with a recommendation to enable him to gain necess to the Priests. The King's authority was not sufficient to prevail on the Priests to admit a stranger to their negatives: they referred Pythagoras therefore to Thebra, as of greater notiquity. The Thehm Priests were used by the Boyal number, but were leach to admit a stranger to their rites. To diagnet the novice, they forced has to undergo several severe core-monics, amongst which was circumcision. But he could not be discoveraged. He obeyed all their injunctions with such patients that they confidence by take him into their confidence. He speak two-and twenty years in Egypt, and returned perfect matter of all source. This is not a built story: but there is one objection to it—it is not substantiated.

To Pythagona the intention of the word Philosopher is ascribed. When he was in Peloponnesus he was asked by Leontine what was his art. 'I have no art; I am a philosopher,' was the reply, Lecutins, never busing heard the name before, asked what it meant. Pythagoras gravely answered, 'This life may be compared to the Olympic games; for as in this assembly some seek glory and the crowns; some by the purchase or by the sale of murchatalise seek gain; and others, more noble than either, go there neither for gain nor for appliance, but solely to enjoy this wonderful spectacle, and to see and know all that passes. We, in the same manner, quit our country, which is Heaven, and come into the world, which is an assemble where many work for profit, many for gain, and where there are but few who, despising asprice and samity, study nature, It is those has whom I call Philosophers; for ne there is nothing more public than to be a spectator without any personal interest, so in this life the contemplation and knowledge of nature are infanitely more honourable than any other application." It is necesmry to observe that the ordinary interpretation of Philosopher, as Pythagoras meant it, a 'lover of wisdom,' is only accurate where the atmost extension is given to the word "lover." Wisdom most be the "be-all and the end-all here" of the philosopher, and not simply a taste or a pursuit. It must be his mistress, to whom a 136 is devoted. This was the meening of Pythagonas. The word which had before designated a wise man was made. But he wished to distinguish himself from the Soybit, or philosophers of his day, by name, as he had done by system. What was the meaning of Stokes? Unquestionally what we mean by a wise man, as distinct from a philosopher; one whose windom is practical, and turned to pentical purposes; one who know window not for its own sake so much as for the sake of its uses. Now Pethagoras loved missions for its own sake. Contemplation was to how the highest exercise of

humanity: to bring wisdom down to the base purposes of life was desceration. He called himself therefore a Philosopher—a Lover of Wisdom—to demorrate himself from those who sought Wisdom only as a power to be used for ulterior ends.

This interpretation of the word Philosopher may explain some of his equations. Above all, it explains the constitution of his Secret Society, into which no one was admented except after a severe initiation. For five years the povice was condemned to silence. Many relinquished the task in despate; they were unworthy of the contemphation of pure wisdom. Others, in whom the tendency to laquacity was observed to be less, had the period commuted. Various humilations had to be endured: rarious experiments were made of their powers of self-denial. By these Pythagoras judged whether they were worldly-minded, or whether they were fit to be admitted into the sanctuary of ericane. Having purged their souls of the baser particles by purifications, merifices, and initiations, they were admitted to the sanctuary, where the higher part of the soul was purged by the knowledge of truth, which comists in the knowledge of immaturial and sternal things. For this purpose he communeed with Mathematics, because, as they just preserve the medium between corporeal and incorporeal things, they can alone draw off the mind from Sensible things and conduct them to Intelligibles.

Shall we wonder, then, that he was venerated as a God? He who could transcend all corthly struggles, and the great ambitions of the greatest men, to live only for the sake of wisdom, was be not of a higher stamp than ordinary mortals? Well might have historians-picture him as elothed in robes of white, his head crossed with gold, his espect grave, majestical, and calm; above the manifestation of any human joy, of any human sorrow; coveragt in contemplation of the deeper mysteries of existence; listening to more and the hymns of Homer, Heriod, and Thales, or listening to the harmony of the spheres. And to a lively, talkative, quibbling, active, versatile people like the Greeks, what a grand phenometer must this solenn, excust, eitent, meditative man have appeared?

From Sir Lytten Bulwer's Athens we borrow the following account of the political carrier of Pythagueus:—" Pythagueus arrived in Italy during the reign of Tarquinus Superbas, according to the testimony of Cicero and Aulus Gellius, and fixed his residence in Croton, a city in the bay of Tarentons, colonized by Greeks of the Achean tribe. If we may lead a partial credit to the extraorgant fichles of later disciples, endeavouring to extract from florid superaddition some original genu of simple truth, it would some that he first appeared in the character of a towler of youth, and, as was and immenal in those times, soon rose from the preceptor to the legislator. Dissensions in the city forcured his objects. The Senate (consisting of a thousand members, contains of a different rare from the body of the people; the list the posterity of the settlers, the last the native population) availed inclif of the preval and infraction of an eloquent and renowned philosopher. He less bines if to the consolidation of anisto-meies, and was equally inimized to democracy and tyranay. But his policy was that of so entrar ambition. He refused, at least for a time, octenible power and office, and was contented with instituting an organized and formitable occurs, not wholly dissimilar to that mighty Order founded by Lorols in times comparetted a recent. The disciples admitted into this stearty tradernout remainsting and probating; it was through degrees that they possed into its higher honours, and were admitted into its deeper serrets. Religion made the limit of the frateristr, but religiou connected with human ends of ideascement and sorter. He selected the three hundred who at Croton formed his Order, from the reddest families, and they were professedly reared to know thenselves, that so they might be fitted to command the world. It was not long before this society, of which Pythagoras was the head, appears to have appropried the streight Senate, and obtained the logislative administration. In this Institution Pythogoras stands alone; no other faunter of Greek philosophy resembles him. By all appoints he also differed from the other inges of his time in his estimation of the importance of women. He is said to have beturn) to, and taught them. His wife was herself a philosopher, and fifteen disciples of the softer sea rank among the proteinest ontanews of his scient. An Order hand upon so profound a knowledge of all that can favorate or clear mankind would not fail to sexue a tent source powers. His influence was unbounded in Croton; it extended to other Italian cities; it amended or overturned political constitutions; and had Pythagoras postessed a more roops and personal ambition he might perhaps have founded a mighty dymosty, and carrieded our social annels with the result of a new experiment. But his was the architica not of a hero, but a sage. He nished rather to metallish a system than to exalt binself. His inmediate followers say not all the consequences that might be derived from the fraternity he founded; and the political designs of his gorgeres and august philosophy, only for awhile successful, left

belond them but the nummeries of an impotent freemmoury, and the enthusiastic exempues of half-witted asceries.

It was when this power, so mystic and so rerelationary, had, by the means of branch societies, muchlished itself throughout a considerable portion of Italy, that a general fieling of about and outplaton broke out against the ergs and his sectations. The anti-Pythagorem visuage, according to Porphyry, were sufficiently nameters and active to be committeed long generations afterwards. Many of the erge's friends are said to have prouded, and it is doubtful whether Pythagoras himself fell a victim to the rage of his occurre, or died, a fugitive, amongst his disciples at Metaportum. Nor was it outdought the whole of Loour Italy was toru by convulsions, and Greece bernelf drawn into the content as pacificator and arbiter, that the firment was allayed. The Pythagoreon instinations were abolished, and the timecratic democracies of the Arbitras rose upon the rains of those incellectual but ungenial ofigurchies.

"Pythagorus committed a fatal error when, in his attempt to revolutionane society, he had recourse to ariscorracies for his agents. Breolutions, especially those influenced by religion, can never be worked out but by popular constients. It was from this error of judgment that he enlisted the people against him; for by the account of Neanthes, related by Posphyry, and indeed from all other testimony, it is clearly evident that to popular not party committen his fall must be ascribed. It is no less clear that after his death, while his philosophical acet remained, his political code crombled army. The only seeds sown by philosophers which spring up into great States, are those that, whether for good or evil, are planted in the hearts of the Maur."

We cannot omit the story which so long amused the world, respecting his discovery of the masteral chords. Heating one day, in the shop of a blacksmith, a number of men striking successively a giver of heated from he remarked that all the humaners, except one, produced harmonious abords, viz. the octave, the fifth, and the third; but the sound between the fifth and the third was discordant. On entering the workshop, he found the discretity of sounds was owing to the difference in the seeight of the humaners. He took the exact weights, and on reaching home suspended four strings of equal dimensions, and hanging a weight at the end of each of the strings equal to the weight of each humaner, he struck the armage, and found the sounds correspond with those of the humaners. He then proceeded to the formation of a musical scale.

On this, Dr. Burney, in his History of Maste, remarks: 'Though both hammers and unvil have been swallowed by ancients and noderns with most ostrich-like digestion, yet upon examination and experiment it appears that hammers of different size and weight will no more produce different toors upon the same savil, than hows or elappers of different size will from the same string or bell.'

We close here our account of the life of Pythagoras, reminding the reader that one great reason for the fabulous and contradictory assertions collected together in histories and biographies arises from the uncritical manner in which the "authorities" have been used. To take only one "authority" as an example: Iamblicus wrote his life of Pythagoras with a view of combaring the rising discrime of Christianity, and of opposing by implication a Pagan philosopher to Christ. The miracles that were attributed to Pythagoras have no better source than this.

§ III. PRIDESSERV OF PETRADORAS.

There is no system in the whole course of our history more difficult to seize and represent accurately than that creamonly known as the Pythagoreau. It has made prodigious noise in the world; so much so as to be often confounded with its distant schoes. An air of mystery, always inviting to a large class, surrounds it. The nurvillous relations concurring its illustrious foundar, the supposed as multation it contains of various elements of Eastern speculation, and the supposed symbolical nature of its doctrines, have all equally contained to remier it attractive and contradictory. Every dogma in it has been traced to some prior philosophy. Not a vestige will remain to be called the property of the teacher himself, if we restore to the Jews, Indians, Egyptians, Chaldents, Pharmicians, may twen Thereisms, those various portions which he is declared to have becrowed from them.

All this protected plagnerism we incline to think extremely improbable: Pythagorus was a consequence of Anaximumder; and his doctrines, in as far as we can gather from their leading tendency, were but a continuation of that abstract and deflective philosophy of which Amazimumder was the originator.

At the outset we must premise, that whatever interest there may be in following out the particular opinious eccepted as belonging to Pythagoras, such a process is quite incompatible with sear plan. The greatest uncertainty still exists, and must for ever exist amongst

scholars, respecting the genuineness of those opinions. Even such as are recorded by trustworthy authorities are always vaguals attributed by them to "the Pythagorenas," not to Pythagoras. Mollom criticism has clearly shown that the works attributed to Tomess and Archytas are spurious; and that the supposed treation of Oculian Lucinian on the "Nature of the All' cannot even have been written by a Pythagorean. Plato and Aristotic, the only mount writers who are to be trusted in this matter, do not attribute our peculiar doctrimes to Pythagoras. The reason is simple. Pythagoras taught in secret; and never wrote. What he taught his disculsa it is impresible accurately to learn from what these disciples themselves tnight. His influence over their minds was unquestionable humenses and this influence would communicate to his school a fistinctive feathery, but not one according doctrine; for each scholar would carry out that tendency in the direction which best suited his tastes and powers."

The extreme difficulty of accordining accurately what Pythagonas thought, or even what his disciples thought, will not enforme us if we can but accretion the general tendency of their speculations, and, above all, the pseudority of their method. For this difficulty—which, to the critical historian insuperable, only affects as uninvestly—readers indeed our endeavour to seize the characteristic method and tendency more hamedous and more liable to contradiction; but it does not compel us to interrupt our mucch for the sake of storming every individual fortress of opinion we may encounter on our way. We have to trace out the map of the philosophical world; we must be careful to ascertain the great outlines of each country; this we may be enabled to do without absolutely being acquainted with the interval varieties of that country, for geographers are not bound to be also geologists.

What were the method and tradestry of the Pythagorean actual? The method, parely defactive; the tradestry, wholly towards the

We are grabed by the striking enalogy affected by the extracted State-Errora. Like Pythagora, the Epochman published consemplate associated State-Errora. He experimentally it to his discipling and as his administrative over their works are almost unparalleled, the tracking of his philosophy took deep root, though producing very different from in different minds. Then in-density acquainted with Errora written will appropriate this other, we shoply consequent MM Augmitin Theory. Augmite Courte, Form Lerona, Minusi Charalter, Le Père Enfantia, and M. Manada, all disciplin of Saint-Simon.

consideration of abstractions as the only true nasterials of science. Hence the name not unfrequently given to that school, of 'the Mathematical.' The list of Pythagoreans endeaces the greatest names in mathematics and astronomy,—Archytas and Philolaus, and subsequently Happarchus and Podemy."

We may now perhaps, in some sort, compechend what Pythagona meant when he taught that Nonders were the polariphu of Things : role introduced minimal ripe size of the polariphu of Things : role introduced minimal ripe size of the material existence of Things : of one being here evidently the expression of concrete existence. This is confirmed by the wording of the formula given elsewhere by Aristotle, that Nature is resulted from Numbers : rio doing of includes exaction. [1] Or again: Things are but the espice of Numbers phagons close role for rise of opplying that Pythagoras meant was, that Numbers were the officient nature of things. Anximmeter saw that things in themselves are not find; they are constantly changing both position and attributes; they are variable, and the principle of existence must be invertible; he called that invariable existence rure Axx.

Pythagoras saw that there was an invariable existence being benexth these varieties; but he wanted some more definite expression for it, and be called it Number. Thus each individual thing may change its position, its mode of existence; all its peculiar attributes may be destroyed except our, namely its numerical attribute. It is always "Ow" thing; nothing can destroy that numerical mistonce. Combine the Thing in every possible variety of ways, and it still remains 'One;' it cannot be less than 'one,' it cannot be made more than 'one," Roofer it into its minutest pirticles, and each particle is 'one." Having this found that numerical existence was the only invariable existence, he was easily led to precisin all Things to be but copies of Numbers. All phenomena must enginate in the simplest elements," was Sextim Empiricus, "and it would be contrary to reseon to suppose the Principle of the Universe to participate in the nature of sensible phenomenn. The Principle are consequently not only invisible and intempble, but also increporcal."

As numerical existence is the obtimize state at which analysis can

[—] Model los, a discrete of Pythagorus, makes his Tiran houst of lasting discentered for rares, Number, the highest of the seizuces; Koi pip signfule, Hopes responses, Quine sieuce. Prom., 436.

[†] Aristet, Metoph. I. G. . . De Colo, at. 1. . . Metoph. I. d.

arrive with respect to finite Things, so also is it the ultimate state at which we can arrive with respect to the Infinite, or Existence in itself. The Infinite, therefore, must be One. One is the absolute number; it exists in and by itself; it has no need of any relation with anything also, not even with any other number; Two is tout the relation of One to One. All modes of existence are but finite aspects of the Infinite; so all numbers are but numerical relations of the One. In the original One all numbers are contained, and consequently the elements of the whole world.

Observe, moreover, that One is necessarily the dopy—the beginning of things so eagerly sought by philosophers, since, wherever you begin, you must begin with One. Suppose the number be three, and you strike off the initial number to make two, the second then will be One. In a word, One is the Beginning of all things.

The world quitble on which this, as indeed the whole system reposes, need not excite any suspicion of the sinerrity of Pythagorus. The Greeks were sufortmanely acquainted with no language but their own: and, as a autural consequence, mistook distinctions in longuage for distinctions in things. It has been well said by Dr. Whewell, that fall the first attempts to comprehend the operations of Nature led to the introduction of abstract conceptions, vague indeed, but not therefore unmeaning. And the next step in philosophizing necessarily was to make those sague abstructions more clear and fixed, so that the logical faculty should be able to employ them securely and coherently. But there were two ways of making this attempt; the one, by examining the words only, and the thoughts which they call up; the other, by attending to the facts and things which bring these abstract terms into use. The Greeks followed the world or soliosal course, and failed.

It is only by means of the above explanation that we can any way could the belief in districtions to wire-drawn as those of Pythagorus; it is only thus that we can understood how be could have held that Numbers were Beings. Aristotle attributes this photosophy to the fordness of Pythagorus for numbers which concerns itself with the abstract, not with the material existence of sensible things; but surely this is only half the explanation? The mathematicans in our day not only reason unitedy with symbols, which stand us the representatives of things, without having the least affinity or resemblance to the things (being wholly orbitrary march), but very

^{*} History of the Industrian Secure 1 34.

many of these men never trouble themselves at all with inspecting the things about which they reason by means of symbols. Much of the science of Astronomy is carried on by those who never use a telescope; it is carried on by figures upon paper, and calculations of those figures. Because, however, astronomers use numbers as symhole, they do not suppose that numbers are more than symbols. Pytharpures was not able to make this distinction. He believed that numbers were things in realize, not merely in symbol. When therefor Ritter says that the Pythogorous formula 'can only be taken symbolically," he appears to my to commit a great anachronism, and to antelace by several conteries a mode of thought at variance with all we know of Greek Philosophy; at suremer also with the express testimony of Aristotle, who says, The Pythagoresus did not separate Numbers from Things. They held Number to be the Principle and Material of things, no less than their essence and power." The notion that because we, in the present state of philosophy, cannot conceive Numbers otherwise than as symbols, therefore Pythagons must have conceived them in the same way, is one which has been very widely spread, but which we hold to be as great an anarhousism as Stakespears's Hector quoting Aristotle, or Bacine exhibiting the etiquette of Versailles in the camp at Anlis. And Ritter himself, after having stated with considerable detail the various points in this philosophy, admits that the essential dectrine rests on "the derivation of all in the world from mathematical relations, and on the resolution of the relations of space and time into those of units or numbers. All proceeds from the original one, or primary number, or from the plurality of mits or numbers into which the our in its life-development divides itself? Now, to suppose that this doctrine was simply mathematical, and not mathematico-cosmological, is to violate all principles of historical philosophy, for it is to throw the opinious of our day into the period of Pytlagoras. For a final proof, consider the formula, primons state to done the disablace, Things are the copies of Numbers," This formula, which of all others is the most favourable to the notion we are combating, will

Metapa, i. 5. Perhaps it would be more accurate to any. Numbers are the beginning of things, the come of their material constrace (Day rais often: Attentials has before defined the second materially, cap. 3) and of their multifluctions for with we sai (2001).

The whole chapter should be consulted by these who believe in the symbolical use of nembers; a belief Aristotle had certainly no suspected of. These translated all the passages bearing on this point at the close of this Section.

on a close inspection calcibit the real menning of Pythagoras to be directly the reverse of symbolical. Symbols are arbitrary marks, bearing no resemblance to the things they represent; a, b, c, a me but letters of the alphabet; the mathematicism nakes them the symbols of quantities, or of things; but no one would call a the copy of an unknown quantity. But what is the meaning of Things being copies of Numbers, if they are Numbers in energie? The meaning we must neck in anterior explanations: We shall there find that Things are the concrete aristoness of mistrart Existence; and that when Numbers are said to be the principia, it is meant that the forms of material things, the original cosmoes, which remain invariable, are Numbers.* Thus a stone is One stone; as such it is a copy of One; it is the realization of the abstract One into a concrete stone. Let the stone be ground to dust, and the particle of dust is still a copy, another copy of the One.

The reader will bear in mind that we have only a few mystical expressions, such as, 'Number is the principle of Things,' builded down to us as the doctrines of a Thinker who created a considerable school, and whose influence on philosophy was undensibly immense. We have to interpret these expressions as we heat can. Above all, we have to give them some appearance of phusibility; and this not so much an appearance of plausibility to modern thinkers as what would have been plausible to the ancients. Now, as far as we have familiarized considers with the antique modes of thought, our interpretation of Pythagorus is one which, if not the true, is at any rate very analogous to it; by such a logical process he sught have arrived at his renducious, and for our purpose this is almost the same as if he had arrived at them by it.

This history has but to settle two questions respecting Pythagoma; first, did he regard Numbers as symbols marely, or as entities? Second, if he regarded them as entities, how could be have arrived at such an opinion? The second of these questions has been answered in a hypothetical manner in the remarks just made; but of course the explanation is worthless if the first question be negatived, and to that question therefore we now turn. If we are to accept the authority of Aristotle, the question is distinctly and decisively answered, as we have seen, in favore of the resulty of Num-

^{*} House we must current against supposing Pythagerss to lave statisficted the theory of idefinite proportion.' Numbers on use the laws of combination nor the expression of these laws, but the essence which remain marrisble under every variety of combination.

bers. It is true that deales are threen on the authority of Aristoile, who is said to have misunderstood or misrepresented the Pythagorean decrine; but plea we consider the comprehensiveness
and exactness of Aristotle's mighty intellect; when we consider further that he had paid more than his noral attention to the Jostinian
of the Pythagoreaus, having written a special freatise thereon, we
shall be show to reject any statement he may make, unless beforconference is produced; and where can better evidence be sought?
Enther we must arroph Aristotle, or be silent on the whole matter;
unless, indeed, we prefer—as many prefer—our own segarily to his
authority. It may be stated as a final consideration, that the view
taken by the Stagorne is in perfect conformity with the opinions of
Anaximateler; no that given, the philosophy of the master, we might
0 polesy deduce the opinions of the pupil.

The unions of this Work forbids my detailed account of the vations opinions attributed to Pythagoras on substituty points. But so may instance his refebrated theory of the music of the spheres as a good specimen at the deductive method rangioged by him. Assuming that corrything in the great Arrangement leicrass), which he called the world, must be lammoniously arranged, and, assuming that the planets were at the sums proportionate distances from one mother as the divisions of the monochard, he concluded that in passing through the other they must make a sound, and that this sound would vary according to the diversity of their magnitude, relative, and relative distance. Saturn gave the deepest tour, as being the furthest from the earth; the Moon gave the shallest, as

lang neural to the cutt-

It may be recovery just to state that the attempt to make Pythageest a Memothest is atterly nithout adid basis, and unnorthy or detailed refutation.

His deterine of the Transmigration of Souls has been regarded as symbolical; with very little reason, or rather with no reason at all. He defined the well to be a Mound (unit) which was wif-moved.*

Of course the soul, innumed as it was a number, was Oue, i.e. perfect. But all perfection, in an far as it is mixed, must pure into imperfection, whence it strees to regain its state of perfection. Imperfection be called a departure from unity; two therefore was accursed.

The soul in man is in a state of comparative imperfection # It has there elements, Bernen (1968), Intelligence (6pric), and Presion

[&]quot; Asiatot , Do , dufunt, 1, 2.

² Thes Anstitle expresses himself when he says that the Pyllergorous

(Augor): the two last man has in common with brutes; the first is his distinguishing characteristic. It has honce been concluded that Pythogona could not have maintained the dectrine of transmirestion, his distinguishing man from brunes being a refetation of those who charge him with the decreas." The objection is plausible, and points out a contradiction; but there is abandant evidence for the belief that transmigration was taught. + The soul, being a selfmoved monad, is One, whether it connect itself with two or with through nother words the easure remains the same whatever its samiferiations. The One soul may have two aspects, Intelligence and Passion, as in herites; or it may have the three aspects, as in man. Each of these aspects may prolominate, and the man will thru become entirently rational, or able, or seasual. He will be a philosopher, a man of the world, or a brast. Hence the importance of the Pethagorem mitiation, and of the stories of Mathematics and Music.

"This soul, which can look before and after, can shrink and shrivel itself into an inexpecity of contemplating aught but the present aroment, of what depths of degeneracy it is expalle! What a beast it may become! And if something lower than itself, why not something higher? And if something ligher and lower, may there not by a law assurantly determining its covation and dosent? Each soul has its peculiar cull tastes, bringing it to the likeness of different creatures beautift itself; why may it not be under the measurity of abiling in the condition of that thing to which it had adapted and reduced itself?" 2

In closing this account of a very imperfectly-known doctrine, we have only further to exhibit its relation to the preceding photosophy. It is clearly an offshoot of Anaximumder's doctrine, which it developes in a more logical summer. In Amazimumder there remained a trace of physical impulsy; in Pythagorus science is frankly mathematical. Assuming that Number is the real invariable ossence of the north, it was a natural deduction that the world is regulated by numerical proportions, and from this all the rest of his system followed as a

commissed the against auditificance to be a certain combination of natures, of 6 result (acres and adulate make) (e.g.) and enter-diving A. i. 5.

^{*} Firm Lerone, In I Manager, 1, 300-120.

⁷ Plate distinctly mantices the transcriptation into bends — Physica, p. 45. And the Pythagorem Timeras, in his summent of the decirine, also expressly includes benets. — Timeras, p. 48.

Maurice, Maral and Merophysical Philosophy.

consequence. Austinander's system is but a rude and during sketch of a sloctrine which the great mathematical genius of Pethagona developed. The Infinite of Aussimander because the One of Pr. thagoras. Observe that in neither of these systems is Mind an stiribute of the Infuite. It has been frequently maintained that Pethogona targist the destrine of a "soul of the world." But there is no solid ground for the opinion, any more than for that of his Theism, which later writers anxiously attributed to him. The conception of an Infinite Mind is much later than Petlagoras. He only regarded Mind as a phenomenou; as the peculiar manifestation of an essential number; and the proof of this assertion we take to lie in his very doctrine of the soul. If the Mound, which is selfnowed, can puss into the state of a brute or of a plant, in which state it successively loses its Beason (sofe) and its Intelligence (dark) to become merely sensual and concupied be, does not this abdiration of Reason and Intelligence distinctly prose them to be only variable manifestations (phenomena) of the invariable Essence? Assurelly: and those who argue for the Soul of the World as an Intelligence in the Pythagorean doctrine, must renounce both the doctrine of transmigration and the control dectrine of the system, the invariable Number as the Essence of things.

Pythagorus represents the second epoch of the second Branch of Joulan Philosophy; he is parallel with Anaximenes.

Translations from the 5th Chapter of Book I, of dishidie's Metaphysics.

'In the age of these philosophers [the Eleats and Atomists], and even before them, lived those called Pythagoreans, who at first applied themselves to reathernatics, a science they improved; and, having been trained exclusively in it, they fancied that the principles of mathematics were the principles of all things.

'Since numbers are by nature prior to all things, in Numbers they thought they perceived greater analogies with that which exists and that which is produced (épocogamu works rais ofor ani perupinan) them in fire, earth, or water. So that a certain combination of Numbers was justice; and a certain other combination of Numbers was Beasen and Intelligence; and a certain other combination of Numbers was opportunity (suspect); and so of the rest. 'Moreover they saw in Numbers the combinations of harmony. Since therefore all things second formed similarly to Numbers, and Numbers being by nature naturior to things, they concluded that the elements (errorgeist) of Numbers are the elements of things, and that the whole heaven is a harmony and a Number. Having indicated the great analogies between Numbers and the phenomena of heaven and its parts, and with the phenomena of the whole would (rip Skap Sansierapara) they formed a system; and if any gap was apparent in the system, they used every affort to restore the connection. Thus, since Ten appeared to them a perfect number, potentially containing all numbers, they declared that the moving celestial bodies (via dapsigness area via adjective) were ten in number; but because only nine are visible they imagined (weselos) a tenth, the shaliet/heav.

"We have treated of all these things more in detail elsewhere. But the reason why we recar to them is this—that we may learn from these philosophers also what they by down as their first principles, and by what process they hit upon the causes aforesaid.

"They maintained that Number was the Beginning (Principle, Appel of things, the cause of their material existence, and of their modifications and different states. The elements (arregola) of Number are Odd and Even. The Odd is finite, the Even infinite. Unity, the Our, particles of both these, and is both Odd and Even. All number is derived from the One. The hearens, as we said before, are composed of numbers. Other Pythagonyans say there are ten Principle, those called co-ordinates:

The finite and the infinite.
The old and the even.
The one and the many.
The right and the left.
The male and the female.
The quiescent and the moving.
The right line and the curve.
Light and darkness.
Good and evil.
The square and the oblong.

to the elements are in all things, and constitute the world. . . .

be not separate existences, such as are fire, water, etc.; but the abstract Infinite and the abstract One are respectively the substance.

of the things of which they are predicated, and hence, too, Number is the substract of all things (abré vé divapor, on abré vé és, obrins elem voiver). They began by attending only to the Form, and began to define it; but on this subject they were very imperfect. They define superficially; and that which suited their definition they declared to be the assence (reasts anderivisis) of the thing defined; as if one should maintain that the double and the number two are the same thing, because the double is first found in the true. But two and the double are not sepaid (in essence), or if so, then the one would be many; a consequence which follows from their (the Pythaparean) doctrine."

(We sold also a passage from the 5th Chapter of the some Book.)

The Pythagorean employ the Principle and Elements more strangely than even the Physiologists; the cause of which is that they do not take them from sensible things (nórès où cệ nórbyrós). However all their researches are physical; all their systems are physical. They explain the production of heaven, and observe that which takes place in its various parts, and its revolutions; and thus they employ their Principles and Causes, as if they agreed with the Physiologists, that whatever is in material (nórbyrós), and is that which contains what we call Lemen.

"But their Courses and Principles we should pronounce sufficient (fearer) to mise them up to the consequion of Intelligible things, of things above some (frame/figure and feel on descripe view ferms); and would accord with such a conception much better than with that of physical things."

This criticism of Aristotle's is a perfect refination of those who see in Pythagoras the traces of symbolical doctrine. Aristotle sow how much more resonal the doctrine would have been had it been symbolical; but this very remark process that it was not so.

CHAPTER III.

THE ELEATICS.

& I. XENOPHENDS.

THE contradictory statements which so long obscured the question of the date of Xenoplimos' birth, may now be said to be satisfactorile cleared up. M. Vanto Comin's ensw on the subject will leave few readers unconvinced." We may assert therefore with some probability, that Xenophanes was been in the 40th Olympial (n. c. 620-616), and that he freed nearly a hundred years. His hirth-place was Colophon, an Ionian city of Asia Minor; a city long famous as the sent of elegine and griomic poetry, and ranking the poet Minnermus among its relebrated men. Xenoplanes enltirated this species of poetry from youth opwards; it was the joy of his worth, the consolation of his manhood, and emport of his old-age. Banished from his native city, he wandered over Sicily as a Rhapsolist; t a profession be exercised apparently till his death, though, if we are to credit Platurch, with very little pecamore benefit. He fixed poor, and died poor. But he could dispense with riches, having within him treasures inexhaustible. He whose whole soul was enwrapt in the contemplation of grand ideas, and whose rocation was the poetical expression of those ideas, needed but little worldly grandeur. He seems to have been one of the most remarkable men of antiquity, and also one of the most facatiral. He had no pity for the idle and luxurious superstitions of his time; he had no tolerance for the sunny legends of House, deficed as they were by the errors of polytheism. He, a poet, was fierce in the combat he perpetually waged with the first of poets: not from petty easy; not from petty ignorance; but from the days succeity of his heart, from the holy enthrolism of his reverence.

^{*} Neuronar Proposur Philosophypes — The critical reader will observe some nin-statements in this every, but on the whole it is well worthy of persons. Kerslan's Neurobraid Commission Religion is of great value.

[†] The Rhapsocians were the Missards of antiquery. They learned poems by heart, and rectical them to assembled erosols on the occasions of feasts. Homer was a ringsociat, and chapsodised his own versus.

He who believed in one God, supreme in power, goodness, and intelligence, could not witness without pain the degradation of the Divine is the common religion. He was not dead to the poetic beauty of the Homeric fallow, but keenly alice to their religious falsebood. Plato, whom none will accesse of wanting pactical taste, made the same objection. The latter portion of the second and the beginning of the third books of Plato's Republic are but expussions of these verses of Xenophanes':—

Such things of the Gods are related by House and Housed.
 As would be shone and abiding disgrees to any of mankind;
 Proposes broken, and thefts, and the use decriping the other.

He who firmly believed in

*Our God, of all hemps divine and human the greatest,

Number in body clike cuto nortals, neither in spirit.*

and and had not 'more in account them in more 'the m

could not but see, 'more in sorrow than in anger,' the gross anthropomorphism of his follows :--

But men feelishly think that Gods are burn like us men are.

And have two a dress blo their own, and their voice and their figure:
But if norm and hous had hands like ours, and fingers.

Then would house like units hernen, and oven to save.

From and festion their god forms, and give to them bodies

Of the slope to their own, as they themselves to, are fashioned?

In confirmation of which satise he referred to the Ethiopiuss, who represent their gods with flat moses and black complexion; while the Thracisms give them blue eyes and mildy complexions.

Having attained a clear recognition of the unity and perfection of the Godhead, it become the object of his life to spread that constrtion abroad, and to true down the thick tril of superstition which hid the august constraince of truth. He looked around him, and

This is too important a position to admit of our puming over the original re-Ele field in the feeling and delplanning payment.

Oles biast forming during stee sings .- Frage, L. od. Karstin.

Wiggers, is his Life of Sovieter, expresses his surprise that Xenophases was allowed to speak as freely respecting the State Religion in Magas Green, when philosophical epinions much loss consected with religion had preved so fatal to Anacagorus in Athena. But the apparent controlleries is perhaps recommind when we remember that Xenophases was a poor, and pusts have in all ages been consensate privileged overcone.

is all ages been consensate privileged persons.

† Fragments v. and vi. are here united, as in Entroy; the sense seems to demand this conjunction. But Clearers Alexandrizes quotes the second Fragment as if it occurred in another part of the poem; introducing it arm

un rollin page, "and again he says."- Karates p. 41.

saw mankind divided into two classes: those who speculated on the nature of things, undearening to mise themselves up to a renguition of the Divine; and these who righted as easy unreflecting assent to the superstitions which composed religion. The first class speculated; but they kept their speculations to themselves, and to a small circle of disciples. If they sought truth, it was not to communicate it to all mouls; they did not work for humanity, but for the few. Even Pethagons, comest thinker as he was, could not be made to believe in the fitness of the multitude for truth. He had two sorts of doctrine to teach ; one for a few disciples, whom he chase with extreme caution, the other for those who pleased to listen. The former doctrine was what he believed the truth; the latter was what he thought the masses were fitted to receive. Xenophanes recognized no such distinction. Truth was for all sucu; to all men he embayoured to present it; and for three-quarters of a century be, the great Rhapsodist of Truth, emulated his countryman Homer, the great Rhapsedist of Beauty, and wandered into many hards, uttering the throught which was weeking in him. What a contrast is presented by these two louisa singers! contrast in purpose, in means, and in fate. The rimposities of the philosopler, once so eagerly listened to and affectionately preserved in traditionary fragments, are now only extant in briefest extracts contained in anescut hooks, so ancient and so miinteresting as to be visited only he some care old scholars and a few difethooli spiders; while the rhapsodies of the Mind singer are living in the brain and leart of thousands and thousands, who go lack to them as the fountain-source of poetry, the crystal mirror of su assigne world.

The world presented itself to Homer in pictures, to Xonophanes in problems. The one saw Nature, enjoyed it, and pointed it. The other also saw Nature, but questioned it, and weestled with it. Every built in Homer is summy elear; in Xenophanes there is indecision, confusion. In Homer there is a resonance of gladoms, a sense of manifold life, activity, and enjoyment. In Xenophanes there is litterness, activity of a spasmodic sort, infinite doubt, and infinite eadness. The one was a poet singing as the bird sings, caredling for very exuberance of life; the other was a Thinker, and a functio. He did not sing, he recited:

> "Ah! Low unlike To that large sin-runs of the ently Gold "

That the carriest philosopher should have opposed the sumy past, opposed him even with bitterness, on account of the degraded actions

and motives which he attributed to the Gods, is natural; but we must distinguish between this opposition and sature. Xerophana was better, not satirical. The statement derived from Diogenes, that he wrote satires against Homer and Hesiod, is erroughes. Those who think otherwise are referred to the excellent every of Victor Consin, before mentioned, or to Rictor.

Rhapsodoing philosophy, and availing himself, for that purpose, of all that philosophers had discovered, he wandered from place to place, and at last come to Elea, where he settled. Hegel questions this: he says he finds no distinct mention of such a fact in any of the ancient writers; on the contrary, Strabo, in his sixth book, when describing Elex, speaks of Parmenides and Zeno as having fived there, but is silent respecting Xenophanes, which Hegel helds to be suspicious. Indeed the words of Diogenus Laurtins are rague. He says. Ximonhames wrote two thousand verses on the foundation of Colophon, and on a colony sent to Elen? This by no means implies that he fired there. Nevertheless we concur with the modern writers who, from the various connections with the Electics obegyable in his fragments, maintain that he must actually have resided there. The reader is again referred to M. Cousin on this point. Be that as it may, Xenoplanes terminated a long and actise life without fasing solved the great problem. The sudecision of his acute mind sewed the seeds of that acepticism which was benufter to play so large a part in philosophy. All his knowledge enabled him only to know how little he knew. His state of mind is finely described by Timon the sillograph, who mas into the month of Xenophores those words :-

• On that mine were the deep trind, prodent and looking to both side? Long, also I have I strayed on the road of error, beguind, And am, now, hours of years, yet exposed to doubt and distraction Manifold, all-perplexing, for whitherasever I turn me. I am lost in the Oo- and All'—(als is enied to nie dechiere.)*

It now remains for us to state some of the conclusions at which this great man arrived. They will not, perhaps, messer to the

† Protected by Seales Empiricus, Hyper, Pyrrhon, i. 224; and quited

also by Ritter, v. 441.

[&]quot;Pryonic listori in interes, and they can displace and 'Bandon an' Option How, may M. Cousin, the word his bay is either an interpolation of a cognit as Fraction and Bossi competitive or vite it in a mis-statement by Diogram. There is not a single tember were of his securiting. But in his becameters in oppose House and Henod, as we have seen.

Reader's expectation; as with Pythagoras, the reputation for extraordinary wisdom seems ill justified by the fragments of that wisdom which have despended to us. But although to modern philosophy the conclusions of these early thinkers may appear trivial, let us never forget that it is to these early thinkers that we one our modern philosophy. Had there not been many a

Grey spirst yearning in Soine
To Sollow knowledge, like a staking star,
Beyond the unnest bound of burness thought,"

we should not have been able to travel on the argure terrestrial path of also inductive science. The impossible has to be proved impossible, before men will consent to limit their endeavours to the compassing of the possible. And it was the ery of despair which escaped from Xenophanes, the ery that nothing can be certainly known, which first called men's attention to the nothingness of knowledge, or knowledge acus these coverities. Xenophanes upons a series of thinkers, which attained its climax in Pyrelse. That he should thus have been at the head of the monotheists, and at the head of the scepties, is sufficient to entitle his speculations to an extended consideration here.

§ H. THE PHILOSOPHY OF XUMPHANIES.

The great problem of existence had early presented itself to his usind; and the resolution of that problem by Thales and Pythagoras had left him unsatisfied. Neither the physical nor the mathematical explanation could still the doubts which rose within him. On all sides he was oppressed with mysteries, which these doctrines could not posetrate. The state of his mind is graphically pointed in that two phrase of Aristotle's: 'Casting his eyes upwards at the immensity of heaven, he declared that The Gae is God.' Overarching him was the deep blue, infinite weslt, immovable, unchangeable, emberring him and all things; that he proclaimed to be God. As Thales had grand abound upon the set, and felt that he was resting on its infinite bosom, so Xemphanes gazed above him at the sky, and felt that he was encompassed by it. Moreover it was a great mystery, inviting yet delying scrutiny. The sun and moon whiteled to and fro through it; the stars were

· Parasled dim in its interactions."

The earth was constantly aspiring to it in the shape of vapour, the scale of men were perpetually aspiring to it with vague yearnings. It was the centre of all existence; it was Existence itself. It was The Ove,—the Immorable, on whose bosom the Many were moved.

Is not this the explanation of that opinion universally attributed to him, but always variously interpreted, "God is a sphere? The Heaven uncomposing him and all things, was it not The One Sphere which he proclammed to be God?

It is very true that this explanation does not exactly accord with his physics, especially with that part which relates to the earth being a flat surface whose inferior regions are infinite, by which he explained the fixity of the earth. M. Crusin, in consequence of this discrepancy, would interpret the planse as metaphorical. "The epithet aphenical is simply a Greek location to maliente the perfect equality and absolute unity of God, and of which a sphere may be an image. The ordenastic of the Greeks is the rotantss of the Latins. It is a metaphorical expression each as that of square, meaning perfect; an expression which, though now become trivial. had at the birth of mathematical science scenething noble and risvated in it, and is Signal in most circuital compositions of poetry. Simonides speaks of a "man square as to his first, his hands, and his mind," meaning an accomplished mon; and the moughar is also used by Aristotle. It is not therefore surprising that Xenophases, a poet as well as a philosopher, writing in verse, and muspublic of finding the naturalysical expression which inswered to like ideas, should have horsowed from the language of imagination the expression which would best render by idea."

We should be tempted to adopt this explanation could we be satisfied that the Physics of Xenophanes were precisely what a send thay were, or that they were such at the epoch in which he maintained the sphericity of God. This latter difficulty is inseperable, but has been unobserved by all crities. A man who has a hundred years necessarily changes his opinions on such subjects; and when opinions are so lightly grounded as were those of philosophers at that epoch, it is but ratural to admit that the changes may have been frequent and alrupt. In this special instance, scholar have been aware of the very great and irreconceable controlletions existing between certain opinions equally natherate; showing his to have been decidedly Physical (Lorino) in one department, and as decidedly Mathematical (Pythagorean) in monther.

As to the case in point, Aristotle's express statement of Xeas-

phanes having 'looked up at leaven, and pronounced The One to be God,' is manifestly at variance with my belief in the infinity of the lower regions of the earth. The One must be the Infinite.

To return, however, to his Monotheism, or more properly Puntheism, which is the greatest peruliarity of his doctrine; he not only destroyed the notion of a multiplicity of Gods, but he prochimed the Self-existence and Intelligence of The One.

God must be Self-existent; for to conceive Being as incipient is impossible. Nothing can be produced from Nothing. Whence, therefore, was Being produced? From itself? No; for then it must have been already in existence to produce itself, otherwise it would have been produced from nothing. Hence the primary low: Being is self-existent. If nelf-existent, consequently sternal.

As in this it is implied that God is all-powerful and all-wise and

all-existent, a multiplicity of Gods is inconociralite.

It also follows that God is immorable, when considered as The

Wholly manored and manoring it over remains in the same place.
Without change in its place when at times it changes appearance.

The All must be unmoved; there is nothing to move it. It cannot move itself; for to do so it must be external to itself.

We must not suppose that he denied notion to finite things because he denied it to the Infinite. He only maintained that The All was unmoved. Finite things were moved by God: without labour he ruleth all things by reason and insight.' His monotheism was carefully distinguished from authropomorphism, as the venes previously quoted have already exemplified. Let us only further remark on the passage in Diograms Larriers, wherein he is said to have maintained that 'God did not resemble man, for he heard and sax all things without respiration.' This is manifestly an allosing to the doctrine of Anaximoms that the soul was six. The intelligence of God, being utterly unlike that of man, is said to be independent of respiration."

It is necessary to continue the reader against the supposition that by the One God Xenophanes meant a Personal God, distinct from the universe. He was a monotheist in contradistinction to his polytheistical contemporaries; but his monotheism was pautheism.

Only by this connecting one descrine with neither can we kept to understand assists philosophy. It is never that we pushe correlate with the alternyt to penetrate the menting of these artisque fragments of thought unless we view them in relation to the opinions of their spects.

Indeed this point usual never have been doubted, notwithstanding the ambiguity of language, if moderns had steadily kept before their minds the conceptions held by the Greeks of their Gods as personifications of the Powers of Nature. When Xenoplanes argued against the polythrism of his contemporaries, he argued against their processifying as distinct dritten the various aspects of The One; he was wroth with their degradation of the divine nature by assimilating it to human nature, by making these powers persons, and independent existences,—conceptions irreconcilable with that of the mitty of God. He was a monotheist therefore, but his monothener was postlation; be could not separate God from the world, which was merely the manifestation of God. He could not conceive God as the One Existent, and admit the existence of a world sot God. There could be but One Existence with many modes; that one was God.

There is another tenet of almost equal importance in his spetem, and one which marks the origin of that sceptical philosophy which we shall see henceforward running through all the evalutions of this history, always determining a crisis in speculation. Up to the time of Xerophaues philosophy was unsuspectingly dogmatical in never afterwards recovered that simple position. He it was also began to doubt, and to confess the incompetence of Reason to solve doubts and compass the evalued aims of philosophy. Yet the doubt was moral rather than psychological. It was no systematic scoplicism; an exmest spirit strongling after Truth, whenever he obtained, or thought be obtained, a glimpse of her celestial counts. muce he proclaimed his discovery, however it might contradict what he had before asnounced. Long travel, various experience, examination of different systems, new and contradictory ginques of the problem he was desirous of solving .- these working together produced in his mind a scepticion of a noble, somewhat tourning sort, wholly unlike that of his successors. It was the combat of runtradictory opinious in his mind, rather than disdain of knowledge. His faith was steady, his opinions vacillating. He had a profound conviction of the existence of an eternal, allowing infinite Being; but this belief he was anable to reduce to a consistent formula. There is down undures in these verses:

Surely never high been, now-ever shall be a meetin!

Knowing both well the Gods and the All, whose entere we treat of:

For when by change he at times may utter the true and the perfect.

The units not uncountings: for every in special over all things.

In vain M. Consin attempts to prove that these verses are not sceptical; many of the recorded opinions of Xenophanes are of the same tendency. The name who had lived to find his most cherebral convictions turn out errors, might well be sceptical of the truth of any of his opinions. But this scepticism was vague; it did not present his proclaiming what he held to be the truth; it did not present his search after truth.

For although Truth could never be compassed in its totality by man, gimpose could be rought. 'Ahha going Sproisers operacourse disease: we cannot indeed be certain that our knowledge is absolute; we can only strive our namest, and believe our opinious to be probable. This is not accuration explicition; it does not ground itself on an investigation of the nature of Intelligence and the sources of our knowledge; it grounds itself solely on the perplexities into which philosophy is thrown. Thus reason (i. e. the logic of his day) tought him that God the Infinite could not be infinite, neither could be be finite. Not infinite, because non-being alone, as having neither beginning, middle, nor end, is unlimited (infinite). Not finite, because one thing can only be limited by another, and God is one, not many.

In like manner did logic teach him that God was neither moved nor unmoved. Not moved, because one thing can only be moved by another, and God is one, not usury, not unmoved, because novbring alone is unmoved, inasmuch as it neither goes to mother, nor does another come to it.

With such verted quilibles as these did this great thinker darken his rescription of the Deity. They were not quilbles to him; they were the real conclusions involved in the premises from which he reasoned. To have doubted their validity would have been to doubt the possibility of philosophy. He was not quite prepared for that; and Aristotle in consequence calls him 'somewhat elevnish,' dypaneirops; (Mel. i. 5); meaning that his conceptions were rule and undigested, instead of being systematized.

Although in the indecision of Xenophanes we see the germs of later surplicism, we are disposed to agree with M. Coosin in discrediting has absolute surplicism—resting on the incomprehensibility of all things—absorption-phis wiscone. Nevertheless some of M. Corsin's grounds appear to us questionable.

^{*} E. g. He mays: 'It appears that Source asserting to Dargenes, atmibuted to Xenophanes the opinion, all things are mecoaprehensible; but Dis-

The Reader will, perhaps, have gathered from the foregoing, that Xenoplanes was too much in carnest to believe in the incomprehensibility of all things, however the contradictions of his logic might cause him to suspect his and other people's conclusions. Of course, if carried out to their legitimate consequences, his principles lead to absolute scepticism; but he did not so carry them out, and we have no right to charge him with consequences which he himself fild not draw. Indeed, it is one of the greatest and communest of critical errors, to charge the originates or supporter of a doctrine with consequences which he did not see, or would not have accepted had he seen them. Because they may be contained in his principles, it by no means follows that he saw them. A man would be reliculed if he attributed to the discoverer of any law of nature the various discoveries which the speciculism of that law might lawe produced; nevertheless these applications were all potentially existing in the law; but as the discoverer of the law was not aware of them, he does not get the credit. Why, then, should a man have the discredit of consequences contained, indeed, in his principles, but which he himself could not see? On the whole, although Xenophanes was not a clear and systematic thinker, it cannot be denied that he exercised a very remarkable influence on the progress of speculation; as we shall see in his successors.

§ III. PARTIESTORS.

The readers of Plato will not forget the remarkable dialogue is which be pays a tribute to the dialoctical subtlety of Parmeriales; but we must at the outset contion them against any belief in the geneineness of the opinions attributed to him by Plato. If Plato could reconcile to himself the property of altering the sentiments of his beloved assister, Socrates, and of attributing to him such as he had never entertained; with far greater reason could be put into the mouth of one long dead, sentiments which were the invention of his own demantic genius. Let us read the Parasenides, therefore, with extreme caution; let us prefer the authority of Aristotle and the verses of Parmenides which have been proserved.

gones able that Solies was wrong on that point." (Fragmens, p. 89.) Now this is altispether a non-statement. Diogenos says. "Socios prefessle that we one before Xemphones maintained the mecomprehensibility of all things; but he is wrong." Diogenos have then not deny that Xemophones held the epinion, but that any one held it before him.

Parmendes was born at Elea, somewhere about the 61st Olympind (n.e. 536). This date does not contradict the rumour which, according to Aristotle, asserted him to have been a disciple of Xenophanes, whem he might have listened to when that great rhapsolist was far advanced in years. The most positive statement, however, is that by Sotion, of his having been taught by American and Dischertes the Pythagorean. But both may be true.

Born to wealth and splendour, enjoying the esteem and ency which always follow splendour and talents, it is conjectured that his early current was that of a dissipated voluptuary; but Dischartes taught him the nothingness of wealth (at times, perhaps, when satisfy had taught him the nothingness of enjoyment), and led him from the dull monotony of nony revelry to the endless variety and excitement of philosophic thought. He forsook the feverish parasit of sujoyment, to contemplate 'the bright countenance of Truth, in the quiet and still air of delightful studies.' But this devotion to study was no equistical sections. It did not prevent his taking an active share in the political affairs of his native city. On the contrary, the fruits of his study were shown in a code of laws which he dress up, and which were deemed so wise and salutary, that the citizens at first yearly renewed their onth to abide by the laws of Parmenides.

> 'And searthing greater did his worth obtain, For fearless virtue brings in boundless gain.'

The first characteristic of his philosophy, is the decided distinction between Truth and Opinion: in other words, between the ideas obtained through the Berson and those obtained through Sense. In Xenophanes we noticed a vague glammering of this notion; in Parmenides it attained to something like clearness. In Xenophanes it contrived to throw an oscertainty over all things; which, in a logical thinder, would have become absolute scepticism. But he was saved from scepticism by his finith. Purnentifies was saved from it by his philosophy. He was perfectly award of the descitful nature of opinion; but he was also aware that within him there were certain inertallicable convictions, in which, like Xenophanes, he had perfect faith, but which he wished to explain by remon. Thus was he led in some sort to anticipate the celebrated doctrine of insate ideas. These ideas were concerning necessary truths; they were true knowledge; all other ideas were uncertain. The Elenties, as lister remarks, believed that they recognized and could demonstrate that the truth of all things is one and unchangeable; perceiving, however, that the human faculty of thought is constrained to follow the appearance of things, and to apprehend the changeable and the name, that were forced to confess that we are smalle fully to comprehend the divine truth in its reality, although we may rightly apprehend a few general principles. Nevertheless, to suppose, in conformity with human thought, that there is accountly both a plurality and a change, would be but a deliation of the senses. While, on the other hand, we must acknowledge, that in all that appears to us as munifold and changeable, metading all particular thought as evolved in the mind, the Godlike is present, superceived indeed by human blindness, and become, as it were beneath a veil, indistinguishable.

We may make this conception more intelligible if we recall the mathematical tendency of the whole of this school. Their know-ledge of Physics was regarded as contingent—delusive. Their knowledge of Mathematics stemal—self-evident. Paracuides was thus led by Xenophanes on the one hand, and Doshotes on the other, to the conviction of the duality of buman thought. His Remon, i.e. the Pythagorean logic, taught him that there is mught existing but The One (which he did not, with Xenophanes, call God; he called it Being). His Sense, on the other hand, taught him, that there were Many Things, because of his manifold sensors impressions. Hence he maintained two Caness and two Principles the one to satisfy the Remon; the other to accord with the explanations of Sense. His work on 'Nature' was therefore divided into two parts: in the first is expounded the absolute Truth, as Remon preclaims it; in the second, human Opinion, recurrenced to

'Pollow the rash eye, and ears with staging sounds confused, and torgue,'
which is but a more arcaning (coga, appearance); nevertheless there
is a cause of this securing; there is also a principle, consequently
there is a doctrine appropriate to it.

It must not be imagined, that Personnides had a mere sugger and general notion of the uncertainty of human knowledge. He mantained that thought was delusive because dependent upon organization. He had as distinct a conception of this celebrated theory as any of his successors, as may be seen in the pussage preserved by Aristotle in the 5th chapter of the 1th book of his Metaphysics, where, speaking of the materialism of Democratus, in whose system sensation was thought, he adds, that others have shared this opinion, and proceeds thus: ' Empedoche affirms, that a change in our condition (riv 450) causes a change in our thought:

"Thought grows in men according to the impression of the moment;"#
and, in another passage, he says :---

"It is always according to the changes which take place in men. That there is change in their thoughts."

Parmentiles expresses himself in the same style:

*Such as to each man is the nature of he many jointed lives.

Such also is the mislingence of each man; for it is

The nature of limbs (organization) which thinketh in mes.

Both in one and mult; for the highest degree of organization gives the highest degree of thought. †

Now, as thought was dependent on organization, and as each organization differed in degree from every other, so would the opinions of men differ. If thought be sensation, it requires but little reflection to show, that, as sensations from the same object differ according to the senses of different persons, and indeed differ at different times with the same person, therefore our opinion is not more true than another, and all are equally false. But Beason is the same in all men: that alone is the formain of certain knowledge. All thought derived from sense to but a seesing (δίξα); but thought derived from Reason is absolutely true. Hence his antithesis to δίξα is always wierce, folds.

Opin majorio pia pierre diferra della barre.

†The last sections, 'for the highest degree of organization gives the highest degree of thought,' is a translation which, deflecing from that of every other we have seen, and being, as we believe, of some importance in the naterpromition of Parasembles' system. It is necessary to state at full our reasons. Here is the engonal of the reason in the text:—

'De yige fanorum Tyre apiliras patrius makaniquerum, Ving ming indipinamung mynistraner. Tā yige pilvi 'Kores Grege dynamica pakrius delene dadynimum, Kaipalinum, nas muyer' vā yige mkries varti saigus.

The test sentence Ritter translates-

For thought is the fulness."

Objecting to Hegal's version of vi where, "the most," and to that of Brandis,
"the mightier," Bitter ways the meeting is "the figh." But we shall then want
an interpretation of "the fiell," What is it? He also here slightly alters
the phrase thus —

"The falmes of all being is thought."

We speak with minimum, but it appears to us that Bitter's assertion re-

This is the central point in his system. He was thereby enabled to arest absolute acciding, and at the same time to admit the uncertainty of ordinary knowledge. He had therefore two distinct dectrines, each proportioned to the finally adapted to it. One doctrine, of Absolute Knowledge (Metaphysics, µerò rà фогосі), with which the finally of pure Ressen was conversed, a doctrine colled in the language of that sky, the "science of Being." The other doctrine, of Belative Knowledge, or Opinion (Physics, rà фоroci), with which the faculty of Intelligence, or Thought, derived from Sense, was concerned, and which may be called the science of Appearance.

On the science of Being, Parmenides did not differ much from his predecesors, Xenophanes and Pythagoras. He taught that there was but one Being; non-Bring was impossible. The latter ascrtion amounts to saying that non-existence cannot exist; a position which may appear extremely trivial to the reader not versed in metaphysical speculations; but which we would not have him despise, immented as it is a calculate piece of evidence respecting the march

specing to characterising 'the full,' or 'the fulness,' is unwarrantable. The ordinary meaning is certainly 'the mere,' or 'the most,' and house need considerably to signify prefection, as in Theoretics—

Kai vily Barakady for visakine iron pairce. - My. i. 20.

When Phrancishe, therefore, uses the planer ri white for rique, he some to in to have the collisiary meaning in view; he speaks of vi white as a measury consequence of the subsulators. Man has many jointed limbs, eye many sensitions; if he had more limbs he would have more semanticus; the highest degree of organization gives the highest degree of thought. This explanation is in conformity with what Asistotle survive introducing the passage; is in conformity with the line immediately proceding —

"Error fines données publice different dell'administre ;

is in conformity with the explanation of the scholast Aselegias, et white area alone, appropriate to the whites sirely easily a subject entropy and the finally, it is conformity with the opinion attributed to Parameters by Platarch, that wester at present no his persistent choice distinctes, as entry eller in the Forganisation.'

It is no this account we reject the reading of extentiqueue, "far-randering," is place of extentioners, "many jointed," suggested by Kareton. The change is activary and for the wayse; solventiqueue having reference only to the form whomas the simila to Parametrics is second to apply to the whole sain.

The meaning of the verses is, therefore, that the intelligence of man is formed according to his many-partied frame, i.v. dependent on his organization.

⁽Ch. Rousseller, Massel de de Philosophie Marienne, † 112, who sitte Philosophie Open, der Philos. pr. 5.

of human opinion. It is only one of the many diastrations of the tendrney to attribute positive qualities to weeds, as if they were things, and not simply asyrts of things: a tendency admirably exposed by James Mill, and subsequently by his sen.* It was this tendency which so greatly pumied the early thinkers, who, when they said that 'a thing is not,' believed that they nevertheless predicated existence, viz. the existence of non-existence. A thing is: and a thing is not; these two assertions seemed to be affirmations of two different states of existence; an error from which, under some shape or other, later thinkers have not always been free.

Paracuides, however, though affering that Being alone existed, and that non-Being was impossible, did not see the real ground of the sophism. He argued that Non-Being could not be, because Nothing can come out of Nothing (as Xenophanes implit him); if therefore Being existed, it must embrace all existence.

Hence he concluded that The One was all Existence, identical, unique, neither been nor dying, neither moving nor changing. It was a hold step to postulate the finity of The One, Xenophanes having acclared it to be necessarily infinite. But there is abundant existence to prove that Parmenales regarded The One as finite. Aristotle speaks of it as the distinction between Parmendes and Meliosus; 'The unity of Parmenides was a rational unity (roll saral höper hole); that of Meliosus was a scaterial unity (roll saral rip factor). Hence the former said that The One was finite (memparopolism), but the latter said it was infinite (dweaper).' From which it appears that the ancients conceived the Bational unity as limited by itself; a conception it is difficult for us to understand. Probably it was because they held The One to be spherical; all the parts being equal; having neither beginning, middle, nor end; and yet self-limited.

The conception of the identity of thought and existence is expressed in some remarkable verses by Parasonides, of which, as a very different interpretation has been drawn from them, we shall give a literal translation.

[&]quot;Many volumes might be filled with the ferroless operatations coverning
the nature of Being (ex.5s, whele, Euc. Eccion, Emerits, and the like), which
have arrisen from courtecking this deable meaning of the words to be; from
supposing that when it signifies to axist, and when it signifies to its some specified thing, us to be a man, to be Socraten to be some, to be a plumtom, or even
to be a nonemity, it must will at the bettom answer to the erms iden; and that
a meaning must be from for it which shall out all those cases. —John Mill.
System of Logic, i. 4. Seet of.

Thought is the same thing as the cause of thought:
For without the thing in which it is unnounced.
You cannot find the thought; for three is nothing, nor shall be.
Except the misting.

Now, as the only Existence was The One, it follows that The One and Thought are identical; a conclusion which by no means contradicts the opinion before noticed of the identity of butom thought and sensation, both of these being nowely transitory mades of Existence.

Respecting the second or physical decreize of Parmenides, we may briefly say that, believing it necessary to give a science of Appenances, he sketched out a programme according to the principles origining in his day. He dented motion in the abstract, but admitted that according to appearance there was motion.

Parmenides represents the logical and more regorous side of the distrinc of Xenoplanes, from which the physical element is almost handshed, by being combinated to the region of uncertain Sense, Knowledge. The ideal element alone was really nourished by the speculations of Parmenides. Although he preserved himself from scripticism, as we saw, nevertheless the tendency of his doctrine was to forward suspicism. In his exposition of the uncertainty of knowledge, he retained a saving clause,—that, nanely, of the certainty of Reason. It only remained for successors to apply the same aceptacism to the ideas of Reason, and Pyrrhonism was complete.

\$ IV. ZENO OF ELEA.

Zeno, by Plato called the Palamedes of Elea, most not be confounded with Zeno the Stoic. He was on all accounts our of the most distinguished of the ancient philosophers; as great is his actions as in his works; and remarkable in each for a strong, inpetuous, disinterested spirit. Born at Elea about the 70th Olympial (n. c. 500), he became the pupil of Paramides, and, as some say, his adopted son.

The first period of his hife was spent in the calm solitaies of study. From his beloved briend and master he had humed to appreciate the superiority of intellectual pleasures—the only pleasures that do not satisful. From him also he had bearied to despite the splendours of rank and fortune, without becoming misualimpical or egoistical. He worked for the benefit of his follow-mate. but declined the recompense of mak, or worldly honours, with which they would have repaid those labours. His recompense was the coice of his own heart, beating calmly in the consciousness of its integrity. The absence of ambition in so intrajed and evalued a mind, might well have been the wonderment of antiquity; for it was no sceptical indifference, no disdain for the opinions of his fellowmen, which made him shun office. He was a delicate no less than an impetuous man, extremely sensitive to praise and blame; as may he seen in his admirable reply to one who asked him why be was so hart by blaze; 'If the blame of my fellow-citizens did not cause me pain, their approbation would not cause me pleasure." In timid minds, skrinking from the coarse ridicule of fools and knaves, this sensitiveness is fatal; but in those brave spirits who fear nothing but their own consciences, and who accept no approlation but such as their consciouces can ratify, this sensitiveness lies at the root of much heroism and noble endeavour. One of those men was Zeno. His life was a battle, but the battle was for Truth; it ended tragically, but it was not fought in rain.

Perhaps of all his moral qualities his patriotism has been the most renowned. He lived at the period of Liberty's awakening, when Greece was everywhere enfranchising harself, everywhere loosening the Persian yoke, and endeavouring to found national institutions on Liberty. In the general efferencence and enthusiasm Zeno was not cold. His political activity we have no means of judging; but we learn that it was great and beneficial. Elea was but a small colony; but Zeno preferred it to the magnificence of Athens, whose luxurious, restless, quibbling, frivolous, passionate, and unprincipled citizens he contrasted with the provincial modesty and horsety of Elea. He did, however, occasionally visit Athens, and there promulgated the doctrines of his master, as we see by the opening of Plato's dialogue, the Pavassandes. There he taught Pericles.

On the occasion of his last return to Elea, he found it had fallen into the hands of the tyrant Neutrins (or Diomedon, or Denylos; the name is differently given by ancient writers). He, of course, compared against him, fieled in his project, and we captured. It was then, as Cicero observes, that he proved the excellence of his master's doctrines, and proved that a courageous soul fears only that which is base, and that four and pain are for women and children, or men who have feminine hearts. When Neurchus interrogated him as to his accompliers, he there the tyrant into an agony of drubt and fear by naming all the courtiers: a masterstroke of andacity, and is those days not discreditable. Having thus arrified his accesser, he turned to the spectators, and exclaiming, 'If you can consent to be slaves from fear of what you see me too suffer, I can only sonder at your cowardice.' So saying, he let his tongue off, and spat it in the face of the tyrant. The people were so round that they fell upon Neurolan and see him.

There are considerable variations in the accounts of this story by ancient writers, but all agree in the main narrative given above. Some say that Zeno was presided to death in a huge meetar. We

liave no trustworthy account of his death.

As a philosopher, Zeno's merits are peculiar. He was the inventor of that logic so relebrated as Dialectics. This, which is the hands of Secrates and Plate, became a powerful weapon of offcure, is, by the universal consent of antiquity, ascribed to Zena. It may be defined as 'A relutation of error by the reductio ail ais. surdies as a means of establishing the truth." The truth to be established in Zeno's case was the system of Paracouldes; we must not, therefore, seek in his arguments for any novelty beyond the new exercise of dialectical subtlety. He brought nothing new to the system; but he invended a great method of polemical exposition. The system had been conceived by Xenophanes; precision had been given to it by Parmenides; and there only remained for Zeno the task of fighting for and defending it; which task he admirably fulfilled. 'The destiny of Zeno was altogether polesnical. Heave. in the external world, the impermous existence and impiral and of the patrict; and, in the internal world, the world of thought, the laborious character of Dialectician /4

It was this fighter's destiny which caused him to perfect the set of offence and defence. He very naturally wrote in prose; of which he set the first example: for, as the wild and turbulent cutlenisms of Xenophanes would instinctively express itself in poetry, so would the argumentative subtlety of Zeno naturally express itself in prose. The great Rhapsodist wandered from city to city, intent upon sonest and startling enunciation of the mighty thoughts stirring confusedly within him; the great Logician was more intent upon a contineing exposition of the futility of the arguments alleged against his system, than upon any propagande of the system itself; for be hold that the truth must be accepted when tooc error is exposed.

^{*} Colon: Fragmen Philosophysos, art. Zince & Elle.

"Autiquity," says M. Cousin, "attests that he wrote not poems, like Xenophanes and Parmenides, but treatises, and treatises of an emiuently prosaic character: that is to say, refutations."

The reason of this may be easily guessed. Coming as a young man to Athens, to perach the doctrine of Parmenides, he must have lasen startled at the opposition which that doctrine met with from the subtle, quick-witted, and empirical Atleniums, who had already erected the Ionian philosophy into the reigning dectrine. Zeno, no doubt, was at first stunsed by the noisy objections which on all sides surrounded him; but, being also one of the keenest of wits, and one of the readiest, he would soon here recovered his balance, and in turn assailed his assailers. Instead of teaching degrantically, he began to truch dialectically. Instead of resting in the domain of pure science, and expounding the ideas of Reason, he descended upon the ground occupied be his adversaries, - the ground of daily experience and sense-knowledge,-and turning their ridicule upon themselves, forced them to admit that it was more easy to conceive The Many as a produce of The One, than to conceive The One on the assumption of the existing Many,

'The polemical method entirely disconcerted the partisons of the Ionian philosophy,' says M. Cousin, 'and excited a lively curiosity and interest for the doctrines of the Italian (Pythagorean) school; and thus was sown in the capital of Greek civilization the fruitful germ of a higher development of philosophy.'

Plate has encountly characterized the difference between Parmanides and Zeno by saying, that the master established the existence of The One, and the disciple proved the non-existence of The Many.

When he argued that there was but One thing really existing, all the others being only modifications or appearances of that One, he did not deay that there were away appearances, he only denied that these appearances were real existences. So, in like manner, he denied motion, but not the appearance of motion. Diogenes the Cynic, who to refute his argument against motion rose and walked, entirely mistook the argument; his walking was no more a refutation of Zeno, than Dr. Johnson's kicking a stone was a refutation of Berkeley's denial of matter. Zeno would have answered. Very true you walk: according to Opinion (ra čečarnie), you are in motion; but according to Benson you are at rest. What you call motion is but the name given to a series of similar conditions, each of which, separately considered, is rest. Thus, every object filling space equal to its bulk is necessarily at rest in that space; motion from one spot to another is but a name given to the sem-total of all these between diate spaces in which the edged at each assured is at real. Take the illustration of the circle: a circle is composed of a number of indistilled points, or straight lines; not one of these lines can indisdually be called a circle; but all these lines, considered as a totality, have one general name given them, via a circle. In the same way, in each individual point of space the object is at root; the sum total of a number of these states of rest is called motion.

The original fallacy is in the supposition that Motion is a thing superadded, whereas, as Zeno elevaly saw, it is only a condition. In a falling stone there is not the 'stone' and a thing called 'motion;' otherwise there would be also another thing called 'rest.' But both motion and rest are makes given to express conditions of the stone. Even rest is a positive exertion of force. Best is force resistent, and Motion is force triumphant. It follows that matter is always in motion; which amounts to the same as Zeno's saying; there is as such thing as motion.

The other organicate of Zeno against the possibility of Motion (and Le maintained four, the third of which we have above explained,) are given by Aristotle; but they sees more like the ingenious parales of diabetical subtlety than the real arguments of an exmest man. It has, therefore, been asserted, that they are only brought forward to ridicale the unskilfulness of his alversarios. We must not, however, be lasty in reseming Zeno from his own logical net, into which he may have fallen as easily as others. Greater men then he have been the dupes of their own verbal distinctions.

Here are his two first arguments:-

- 1. Motion is impossible, because before that which is in motion can reach the end, it must reach the modile point; but this middle point then becomes the end, and the same objection applies to it,—since to much it the object in motion must traverse a middle point; and so on or infinites, seeing that matter a infinitely divisible. Thus, if a stone be cast four paces, before it can reach the fourth it must reach the sexual; the sexual then becomes the end, and the first pace the middle; but before the object can reach the first pace it must reach the half of that half; and so on or infinites.
- This is his famous Achilles punde. We give both the statement and refutation as we find it in Mill's Logic (ii. 453).

The argument is, let Achilles run ten times as fast as a tortoire,

yet, if the torteise has the start, Achilles will never evertake him; for, suppose them to be at first separated by an interval of a thousand feet; when Achilles has run those thousand feet the forteise will have run a hundred, and when Achilles has run those hundred the torteise will have got on ten, and so on for ever; therefore Achilles may run for ever without overtaking the torteise.

Now the 'for over' in the conclusion means, for any length of time that can be supposed; but in the premisers for over does not mean any length of time, -it means any anoder of arbitration of time. It means that we may divide a thousand feet by ten, and that quotient again by ten, and so on as often as we please; that there never need be an end to the subdivisions of the distance, nor, consupressily, to those of the time in which it is performed. But an relimited number of enddivisions may be made of that which is itself limited. The argument proves no other infinity of duration than may be embraced within free minutes. As long as the five minutes are not expired, what remains of them may be divided by ten, and again by tru, as often as we like, which is perfectly compatible with their being only five minutes altogether. It proves, in short, that to pass through this finite space requires a fine which is infinitely direible, but not an infinite time; the confounding of which distinction Hobbes had already seen to be the gist of the followy.

Although the credit of seeing the ground of the fallacy is given by Mill to Hobbes, we must also observe that Aristotle had clearly seen it in the same light. His amore to Zeao, which Bayle thinks "pitiable," was, that a foot of space being only potentially infinite, but actually faile, it could be easily traversed in a finite time.

We have no space to follow Zeno is his various arguments against the existence of a multitude of things. His position may be briefly suremed up thus:—There is but one Being existing normality indivisible and infinite. To suppose that The One is distrible, is to suppose it finite. If divisible, it must be intuitely divisible. But, suppose two things to exist, then there must necessarily be an interval between those two: something separating and limiting them. What is that something? It is some offer thing. But they, if not the same thing, if also must be separated and limited; and so on ad infinites. Thus only One thing can exist as the admiration of all manifold appearances.

Zeno closes the second great line of independent inquiry, which, opened by Amximumder, and continued by Pythagoras, Xenophraes, and Parmenides, we may characterize as the Mathematical or

Absolute system. Its opposition to the Icaian, Physical or Empirical system was radical and roustant. But, up to the coming of Zeno, these two systems had been developed almost in parallel lines, so little influence did they exert upon each other. The two systems clashed together on the arrival of Zeno at Athens. The result of the conflict was the creation of a new method,—Dialectics. This method created the Sophists and the Sceptins. It also greatly influenced all succeeding schools, and may be said to have constituted one great peculiarity of Socrates and Plato, as will be above.

We must have ser previously trace the intermediate steps which philosophy took, before the crisis of Sophistry, which preceded the era of Souratus.

SECOND EPOCH.

SPECULATIONS ON THE CREATION OF THE UNI-VERSE, AND ON THE ORIGIN OF KNOWLEDGE.

CHAPTER L

& I. Hengerres.

'LIFE is a crundy to those who think, a tragedy to those who Democritus and Heraclitus, evidented throughout antiquity as the laughing and the weeping philosophers:

'One pixed, one condemn's the world trace : One lough'd at follow, and one wept o're comme.'

Modern criticism has indeed pronounced both these characteristics to be fabultons; but fables themselves are often only exaggrentions of truth, and there must have been samething in each of these philosophers which formed the nucleus round which the falles grew. Of Hernelitus it has been well said, "The rulgar notion of him as the crying philosopher must not be wholly discarded, as if it meant nothing, or had no connection with the history of his speculations. The thoughts which came forth in his system are Eke fragments torn from his own personal being, and not torn from it without such an effort and violence as must needs have drawn a sigh from the sufferer. If Amsimenes discovered that he had within him a power and principle which ruled over all the acts and functions of his bodily frame, Heraclitus found that there was a life within him which he could not call his own, and yet it was, in the very highest series, bisself, so that without it he would have been a poor, helpless, isolated creature; - a universal life, which connected him with his fellow-men,-with the absolute source and original fountain of Edg. Car

Heraelitus was the son of Elysco, and was born at Epheros, alout

^{*} Maurice, Mosel and Mittal Iprical Philosophy-

the 69th Olympiad (n.c. 108). Of a hanglity, melancholy temper, he related the sugreme magistracy which his fellow-citizens offered him, on account, according to Diogeous Lacrtics, of their dissolute morals; but, as he declined the offer in favour of his brother, we are disposed to think his rejection was grounded on some other cause. Is not his rejection of magistracy in perfect keeping with what che we know of him! For instance, playing with some children near the temple of Diana, he answered those who expensed surprise at seeing him thus occupied, 'Is it not better to play with children, than to share with you the administration of affairs). The contempt which pierces through this reply, and which subsequently grew into confirmed misanthropy, may have been the result of morbid meditation, rather than of virtuous scorn. Was it because the citizens were corrupt, that he refused to exert himself to make them virtuous? Was it because the citizens were corrupt, that be retired to the mountains, and there fixed on herbs and roots, like an ascetic? If Ephrons was dissolute, was there not the rest of Greece for him to make a home of? He fed to the mountains, that he might there, in secret, prey on his own heart. He was a misantheeps, and salamthropy is madness, not virtuous indignation; misanthropy issues from the morbid consciousness of self, not firm the sorrowful opinion formed of others. The aim of his life had been to explore the depths of his own nature. This has been the aim of all asceties, as of all philosophers; but in the former it is morbid anatomy; in the latter it is science.

The contemptuous letter in which he declined the courtous invitation of Darius to spend some time at his court, will best explain his character:—

4 Heraclitus of Epheson to the King Darius, you of Hystospes, boulth!

'All men depart from the paths of truth and justice. They have no attrachment of any kind but murice; they only require to a tranglory with the obstimacy of folly. As for me, I know not malier; I am the curry of no one. I atterly despise the vanity of courts, and never will pince my foot on Persian ground. Content with little, I live as I please.'

Misanthropy was the nucleus of the fable of Herachtus as a weeping philosopher, who refusal the magistracy because the cities were corrupt. The story of his attempting to our limited of a deepsy by throwing himself on a danguill, lapping that the less would come the --ter within him to orange to appear phal.

The Philosophy of Hernelitus was, and is, the subject of dispute. He expressed himself in such enignatical terms, that he was called 'the Obscure.' A few fragments have been hunded down to us.* From these it would be vain to hope that a consistent system could be evolved; but from them, and from other sources, we may gather the general tendency of his doctrines.

The tradition which assigns him Xenophanes as a teacher, is bome ont by the evident relation of their systems. Heraclitus is somewhat more Ionian than Xenophanes; that is to say, in him the physical explanation of the universe is more prominent. At the same time, Heraclitan is neither frankly Ionian por Italian; he wavers between the two. The pupil of Xenoulones would naturally regard human knowledge as a mist of error, through which the simlight only gleamed at intervals. But the inheritor of the Ionian doctrines would not adopt the conclusion of the Mathematical selscol, namely, that the cause of this succertainty of knowledge is the uncertainty of senouses improvious; and that consequently Reason is the only forestain of truth. Hemelitus was not mathematician enough for such a doctrine; he was led to maintain a doctrine directly opposed to it. He maintained that the senses are the assurces of all true knowledge, for they drink in the universal intelligence. The senses deceive only when they belong to barbarian souls; in other words, the ill-educated sense gives false impressions, the rightly-educated scroe gives truth. Whatever is common is true; whisterer is remote from the common, i. e. the exceptional, is false. The True is the Unhidden. † These whose senses are open to receive the Unhilden, the Universal, attain truth,

As if to much the distinction between himself and Xenophanes more forcibly, he says: 'Inhaling through the breath the Universal Echer, which is Divine Reason, we become conscious. In skep we are unconscious, but on waking we again become intelligent; for in skep, when the organs of sense are closed, the mind within is shut out from all sympathy with the surrounding other, the universal Kenson; and the only connecting medium is the breath, as it were a root, and by this separation the mind loses the power of profilection it before possessed. Nevertheless on awakening the mind repairs its memory through the surses, as it were through inlets; and

^{*} Schleirennehar has collected, and endraveneed to interpret them in Wolf and Bultoman's Marcus dec Microbanaction-lefter, vol. i. part in

^{† &#}x27;Abelia et al Airles. This kind of play upon words is very characteristic of metaplo sical thinkers in all ages.

thus, coming into contact with the surrounding other, it resumes to intelligence. As facil when brought near the fire is altered and becomes flery, but on being removed again becomes quickly extinguished; so too the portion of the all-embracing which sojourns in our body becomes more irrational when separated from it; but on the restoration of this connection, through its many pores or inlets, it again becomes similar to the whole.

Can anything be more opposed to the Eleutic dectrine? That system rests on the certitude of pure Reason; this declares that Reason left to itself, i. e. the mind when it is not neuralised by the senses, can have no true knowledge. The one system is exclusively rational, the other exclusively material; but both are punthestical, for in both it is the universal Intelligence which becomes conscious in man,—a conception pushed to its ultimate limits by Hegel. Accordingly Hegel declares that there is not a single point in the Logic of Hernelitus which he, Hegel, has not developed in his Logic.

The reader will remark how in theraclitus, as in Paramuides, there is opened the great question which for so long against the schools, and which still agitates them,—the question respecting the origin of our ideas. He will also remark how the two great parties, into which thinkers have divided themselves on the question, are typified in these two early thinkers. In Paramuidea the idealist school, with its contempt of sense; in Heraclitus the materials school, with its contempt of everything not derived from sensation.

With Xenophanes, Heraclitas agreed in denomining the perpetual delision which reigned in the mind of man; but he placed the cause of that delission in the imperfection of human Renset, not, as Xenophanes had done, in the imperfection of Sense. Be thought that man lind too little of the Divine Ether (soul) within him. Xenophanes thought that the senses clouded the intellectual vision. The one counselled man to let the Universal mirror itself in his soul through the senses; the other counselled him to shot himself up within bisuself, to disregard the senses, and to commune only with ideas.

It seems strange that so pulpable a contradiction between two doctrines should ever have been overlooked. Yet such is the fact. Heraclitus is said to have regarded the world of Sense as a perpetual delusion: and this is said in the very latest and not the least intelligent of Histories, to say nothing of former works. Whenev the opinion? Samply from the admitted sceptions of both Remains and Xenophases with respect to Phenomena (appearances). It is true they both denied the certainty of human knowledge, but they denied this on different grounds. 'Man has no certain knowledge,' said liberactions, 'but God has; and trim man learns from God just as the boy from the man.' In his conception, human intelligence was but a portion of the Universal Intelligence; but a part can never be otherwise than imperfect. Hence it is that the opinion of all mankind upon any subject (common sense) must be a nearer approximation to the truth than the opinion of any individual; because it is an accumulation of parts, making a nearer approach to the whole.

While therefore he maintained the uncertainty of all knowledge, less also maintained its certainty. Its origin was Sense; being senseous and individual, it was imperfect, because individual; but it was true as far as it went. The ass, he scenafidly said, prefers thistles to gold. To the ass gold is not so valuable as thistle. The mas is at once right and wrong. Man is equally right and wrong in all positive affirmations; for nothing truly is, about which a positive affirmation can be made. 'All is,' be said, 'and all is not; for though in truth it does come into being, yet it forthwith ceases to be.'

We are here led to has celebrated doctrine of all things as a *perpetual flux and reflux; which Hegel declares to be an anticipation of his own celebrated dogms, Seys and Nichteys to dosable; Being and Non-Being is the same. Heraclitus conceived the principle—dρχή—of all things to be Fire. To him Fire was the type of spontaneous force and activity; not fluxe, which was only an intensity of Fire, but a warm, dry vapour—an Ether; this was the beginning. He says: 'The world was made neither by God† nor man; and it was, and is, and ever shall be, an ever-living fire in due measure self-enkindled and in due measure

† This is the translation given in Bitter: it is not however exact; effecting is the original, i.e. untilize one of the Gods, is enough of course one of the polytheantic Dotter.

[&]quot;Much of the relicule which this logical ration has excited, expectally in England, has been prompted by the blandest internderstanding. The laughers, mided by worked and highly, have understood Hegel to say that Existence and Non-Existence was one and the same, as if by Nichteyn he meant Nothing. He meant by Nothing No Thing—no processes. The position is perhaps abased, but it is not for metaphysicians to say so.

symbol of Life and Intelligence, became of its spontaneous activity, is but a medification of the Water of Thules and the Air of Ananimenes; moreover, it is only semi-symbolical. Those who scrept it as a pure symbol overlook the other parts of the system. The system which proclaims the senses as the source of all knowledge mean surily attaches itself to a material element as the primary one. At the same time this very system is in one respect a deviation from the Ionian; in the distinction between sense knowledge and reflective knowledge. Hence we placed Diogeness of Apollonia as the last of the pure Ionians; although chronologically be came some time after Heraclitus, and his doctrine is in many respects the same as that of Heraclitus.

This Fire which is for ever kindling into flame, and passing into smoke and ashes; this restless, changing this of things which never are, but are ever becoming: this he proclaimed to be God, or the One.

Take his beautiful illustration of a river: 'No one has ever been twice on the same stream; for different waters are constantly flusing down; it dissipates its waters and gathers them again—it approaches and it recedes—it overflows and falls.' This is malerally but a statement of the flux and reflex, as in his aphorism that 'all is in motion; there is no rest or quietade.' Let us also add here what Ritter says:—

'The notion of life implies that of alteration, which by the ancients was generally conceived as notion. The Universal Late is therefore an eternal motion, and therefore tends, as every motion must, towards some end, even though this end, in the course of the evolution of life, present itself to us as a more transition to some ulterior end. Heraclitus on this ground supposed a certain longing to be inherent in Pire, to gratify which it constantly transformed itself into some determinate form of being, submut, however, my wish to maintain it, but in the more desire of transmuting itself from one form into another. Therefore, to make worlds is Jase's pastime.'

He explained phenomena as the concurrence of opposite tendercies and efforts in the motion of the ever-living Fire, out of which results the most beautiful harmony. All is composed of contrairs, so that the good is also exil, the living is dead, etc. The harmony of the world is one of conflicting impulses, like that of the lync and the box. The strife between opposite tendencies is the parent of all things: without whereve pier world love witness is Bandwis, and role pin florie deafe voic di distributore, suic pin definer drainre role di s'Assibipore. Nor is this simple metaphor: the strife here spoken of is the spiriting in two of that which is in essence one; the contradiction which necessarily lies between the particular and the general, the result and the force, Being and Non-Being. All life is change, and change is strife.

Heraclitus was the first to proclaim the absolute sitality of Nature, the endless change of matter, the mutability and perishability of all individual things, in contrast with the eternal Being, the stprome Harmony which rules over all.

The view we have taken of his doctrines will at once explain the position in which we have placed them. He stands with one foot on the Ionian path, and with the other on the Italian; but his attempt is not to unite these two: his office is negative; he has to criticise both.

\$ II. ANANASORAS.

Anaxagoras is generally said to have been born at Classmense in Lydia, not for from Colophen. Inheriting from his family a splendid patrimony, he seemed born to figure in the State; but, like Parmenides, he disregarded all such external greatness, and placed his ambition elsewhere. Early in life, so early as his twentieth year, the possion for philosophy engrossed him. Like all young ambitions men, he looked with contempt upon the intellect exlabilited in his native city. His soul panted for the capital. The busy activity, and the growing importance of Athens, solicited him. He yearned tenards it, as the ambittons youth in a provincial town yearns for Loodon; in all energy longs for a fating theatre on which to play its part.

He came to Athens. It was a great and stirring epoch. The countless lasts of Persia land been scattered by a handful of resolate men. The political importance of Greece, and of Athens the Queeu of Greece, was growing to a climax. The Age of Pericles, one of the most glorious in the long annals of mankind, was dawning. The Poems of Homer formed the subject of literary conversation, and of silent enjoyment. The early triumphs of Æschylus had created a Drama, such as still remains the wonder and delight of scholars and cratics. The young Suphodes, that perfect flower of antique art, was then in his bloom, meditating on that Drama which he was hereafter to bring to perfection in the Antiques and the

Œdipur Rex. The Ionian philosophy had found a home at Athena; and the young Anasagorus shared his time with Homer and Ananimenes.*

Philosophy soon obtained the superine place in his affections. The posteries of the universe tempted him. He yielded himself to the fascination, and declared that the aim and purpose of his life was to contemplate the beneats. All care for his affairs was given up. His estates ran to waste, whilst he was solving problems. But the flay he found himself a heggar, he attriumed, 'To Philosophy I one my worldly min, and my soul's prosperity.' He commenced teaching, and he had illustrious pupils in Periodes, Europides, and Socratos.

He was not long without paying the panalty of success. The envy and uncharitableness of some, joined to the bigotry of others, ramed an accessation of implety to be brought against him. He was tried, and condemned to death; but owed the mitigation of his sentence into househment, to the eloquence of his friend and pupil, Pericles. Some have supposed that the cause of his persecution was this very friendship of Pericles; and that the statesman mastruck at through the impopular philosopher. The supposition is gratuitous, and belongs rather to the ingrunity of madern schalarship, than to the sober facts of history. In the persecution of Auxageoras there is nothing but what was very natural; it occurred afterwards in the case of Socrates, and it has subsequently occurred a thousand times in the bistory of mankind, as the simple effect of outraged consistions. Auxageoras attacked the religion of his time: he was tried and condemned for his temerity.

After his banishment he resided in Lampsacus, and there preserved tranquillity of mind until his death. "It is not I who have lost the Athenians; it is the Athenians who have lost me," we his proud reflection. He continued his studies, and was highly respected by the citizens, who, wishing to pay some mark of estern to his memory, asked him on his death-heal in what number they

^{*} By this we to more intimate that he was a disciple of Amazimenes as some historians assect) than that he was a friend of Henner. But it can such analyspass planate as that in the lext, usnot the error of culting him to disciple of Amazimenes have union. Hencker's two chronology is stranger as various with his statement: for he planes the high of Amazimenes, 804 Oil; sayind: that of Amazimenes, 70th Olympiad: thus eaching the passer fifty on years old at the birth of the paper; and the pupil only became such in the middle of his life.

could do so. He begged that the day of his death might be anneally kept to a holiday in all the schools of Lampsons. For centuries this request as fulfilled. He died in his seventy-third year. A tomb was severed to him in the city, with this inscription.—

This tenh good Ameagens confines.

Whene word explored the bestrally paths of Truth-

His philosophy contains so many contradictory principles, or perlogs it would be more correct to say so many contradictory principles are attributed to him, that it would be vain to attempt a systematic view of them. We shall, us usual, confine ourselves to leading doctrines.

Bu the great subject of the origin and rertaints of our knowledge, he differed from Xenophanes and Heraclitus. He thought, with the former, that all seme-knowledge is delusive; and, with the latter, that all knowledge comes through the senses. Here is a double scrpticism brought into play. It has usually been held that these two opinions controllet each other; that he could not have maintained both. Yet both opinions are tenable. His reason for denying certainty to the senses was the incapacity of distinguisling all the real objective elements of which things are made. Thus the sax discount a complex mass which we call a flower; but discerns nothing of that of solded the flower is composed. In other words, the senses perceive pheasurems, but do not, and cannot observe naumone,"- an anticipation of the greatest discovery of modern psychology, though seen direly and confusedly by Amragoras. Perhaps the most convincing proof of his having so conceived knowledge is in the seasoge wooted by Aristotle ; "Things are to each according as they seem to him town reasing annount in deter ole de brolaisees). What is this list the assertion of all knowledge being confined to phenomena? It is further strengthened by the passage in Sextus Empiriens, that 'phenomena are the criteria of our knowledge of things beyond sense, i.e., things inevident are evident in phenoπετια (τής τών ἀδήλων καταλήδουν, τά φαινόμενα).

It must not, however, be concluded, from the above, that Anaxa-

[&]quot;Nonneau is the middenia to Pleasureson, which means Appearance; Nonneau means the Solutionia, or, to use the scholastic word, the Solutione. Thus, as makes is recognized by as only in its manifestations (phenomens), we may injustly distinguish those manifestations from the thing manifested (nonneau). And the former will be the sources even quase; the latter, the softenic in qual. Nonneauco is therefore equivalent to the Energy Phenomenso to the Manifestation.

goras regarded Sense as the sole origin of Knowledge. He held that the Reason (köyes) was the regulating freelity of the mind, as Intelligence (100%) was of the universe. The senses are accurate in their reports; but their reports are not accurate especy of Things. They reflect objects; but they reflect them as these objects appear to Sense. Reason has to control these impressions, to verify these reports.

Let us now apply this doctrine to the explanation of some of these apparently contradictory statements which have puzzled all the critics. For instance, Aussigorus says that snow is not white but black, because the water of which it is composed is black. Now, is this he could not have meant that spow did not appear to our senses white; his express doctrine of sense-knowledge forbids such an interpretation. But Reason told him that the Senses gave insecurate reports; and, in this instance, Reason showed him how their report was contradictory, since the water was black, jet the saw white. Here, then, is the whole throny of knowledge exemplified Sense asserting that snow is white; Reflection asserting that saw being made from black water could not be white. He had another illustration :- Take two liquids, white and black, and your the one into the other drop by drop; the eye will be unable to discern the actual change as it is gradually going on; it will only discree it at certain marked intervals.

Thus did he separate himself at once from Xenophones and Henclitus. From the former, because admitting Sense to be the only criterion of things, the only source of knowledge, he could not regard the \(\lambda\text{siye}\); as the unfailing source of truth, but merely as the reflective power, whereby the reports of sense were controlled. From the latter, because reflection convinced him that the reports of the senses were assignatively true, but objectively takes (Herachitus maintained that the reports of the senses were alone certain). Both Xenophones and Herachitus had principles of absolute certainle; the one proclaimed Beason, the other Sense, to be that principle.

[&]quot;Subjective and objective are now almost saturalized; it may not be expeditures, nevertheless, to explain them. The subject means 'the Mind of the Thicker' (Eye), the object means the 'Thing thought of' (New-Eye). In the above pursues,' the reports of the senses being subjectively true' means that the senses truly inform us of their improvement, but these improvement are selected under the actual objects in may be shown by the feeden oppositions of a stick half of which is digged in water), and therefore the reports are 'objectively false."

Amxagoras annihilated the one by showing that the Beason was dependent on the senses for materials; and be annihilated the other by showing that the materials were fallucious.

Having thus, not without considerable difficulty, brought his various opinions on human knowledge under one system, let us endeavour to do the same for his cosmology. The principle of his system is thus ammonised;—' Wrongly do the Greeks suppose that aught begins or ceases to be; for nothing comes into being or is destroyed; but all is an aggregation or secretion of pro-existent things; so that all becoming might more correctly be called becoming-mixed, and all corruption becoming separate.' What is the thought here? It is that instead of there being a Creation, there was only an Arrangement; instead of one first element, there was an infinite number of elements. These elements are the celebrated becoming-mixe;—

*En assique putar ariela consistero posso Aurum, et de terris termin concrescore partis ; Ignibus en ignesa, haracresa en hamorfina esse ; Cutora consistii diagit ratione paradopa.**

This singular opinion, which maintains that firsh is made of moleedes of elementary flesh, and hones of elementary hones, and so forth, is intelligible when we remember his theory of knowledge. The Sense discerns elementary differences in matter, and reflection confirms the truth of this observation. If Notling can proceed from Nothing, all things can be only an arrangement of existing things; but when in this Arrangement certain things are discovered to be radically distinguished from each other, gold from blood for example, -either the distinction observed by the Sensos is altogether false, or else the things distinguished must be elements. But the first horn of the dilemma is avoided by the sensuous nature of all knowledge; if the Senses deceive us in this respect, and Remon does not indicate the deception, then is knowledge all a delusion; therefore, unless we adopt scepticism, we must abide by the testimony of the Senses, as to the distinction of things. But, having granted the distinction, we must grant that the things distinguished are

^{*} Lacretine, h 822 --

That gold from parts of the same nature poor, That earths do worth, tree fire, are air compose. And so in all things due ables to those, —Campent,

There seems to be good reason to believe that not Anatogoras, but Aristotle, was the originator of the word Americans See Entry, 1, 280.

clements; if not, whence the distinction? Nothing can come of Nothing; blood can only become blood, gold can only become gold, mix them have you will; if blood can become beau, then does been become something out of nothing, for it was not bone before, and it is bone now. But, as blood can only be blood, and bone only be bone, whenever they are mingled it is a mingling of two elements, homeomeries.

In the beginning therefore there was the Infinite composed of hosseconcerie, or elementary seeds of infinite variety. So far from The All being The One, as Parmenides and Thales equally tangle, Anaxagorus proclaimed The All to be The Many. But the mass of elements were as yet unmixed. What was to mix them? What power caused them to become arranged in one harmonious all-embracing system?

This power Amangoras declared to be Intelligence (sole), the moving force of the Universe. He had, on the one band, rejected Fate, as an empty name; on the other, he rejected Chance, as being no more than the Cause superceived by human reasoning (rip riggs, displace airiso dispassing hoposphi). This is another remarkable glimpse of what modern philosophy was to establish. Having this disclaimed these two powers, so potent in early speculation, Fate and Chance, he had no other course left them to proclaim Intelligence the Arranging Power.*

This seems to us, on the whole, the used remarkable specialism of all the pre-Socratic epoch; and indeed is so very near the philosophic precision of modern times, that it is with difficulty we preserve its original simplicity. We will cite a portion of the fragment preserved by Simplicius, wherein Intelligence is spoken of intelligence (100%) is infinite, and autocratic; it is mixed up with nothing, but exists alone in and for itself. Were it otherwise, were it mixed up with anything, it would participate in the nature of all things; for in all there is a part of all 1 and so that which was mixed with intelligence would prevent it from exercising power over all things. †—In this passage we have an expression of the modern conception of the Deity acting through invariable laws, but in no way mixed up with the matter acted on.

^{*}We have his own words reported by Diogenes, who says that his work opened thus: * Formerly all things were a confused mass; afterwards, Intiligence country, arranged them unto worlds."

⁷ This principle perfectly necords with what Armindo, says the staint, i.S. and Morand, i. 7.

Will not the foregoing remarks enable us to meet Aristotle's objection to Ameragorus, that "he uses Intelligence us a machine," in respect to the formation of the world; so that, when he is emberrussed how to explain the cause of this or that, he introduces betelligener; but in all other things it is any game but Intelligence which produces things? Now, early this is a very unfair criticism, and could only be valid against one who, like Malebranche, saw God everywhere. Anatogonis assigned to Intelligence the great Arrangement of the Assasosserie; but of course he supposed that subordinate arrangements were carried on by themselves. The Christian thinker some centuries back believed that the Deity created and onlained all things; nevertheless when he burnt his finger the cause of the burn he attributed to fire, and not to God; but when the thunder muttered in the sky he attributed that in no cause but God. Is not this similar to the conception formed by Anaxagoras? What he ess explain, he does explain by natural couses; whatever he is embarrassed to explain, whatever he does not understand, he attributes to God. It is here we see the force of Anaxagoras's opinion respecting Chance as an unascertained cause: what others called the effect of Chance, he called the effect of the universal Intelligence.

On the same grounds we object to the reasoning of Plato. Those who have read the Phento,—and who has not read it in some shape or other, either in the original diction, or in the dim and mistry version of some translator?—those who have read the Phento, we say, will doubtless remember the passage in which Sagrates is unde to express his poignant disappointment at the doctrine of Anaxogons, to which he had at first been so attracted. This passage has an air of authenticity. It expresses a real disappointment, and the disappointment of Soemies, not merely of Plato. We believe firmly that Socrates is here expressing his own opinion; and it is rarely that we can say this of opinious promolgated by Phato under the seguet name of his master. Here is the passage in the mistry receion of Thomas Taylor: we make no alterations, otherwise we should hold correctors responsible for the whole:—

But having once heard a person realing from a certain book,

^{*} This is an affiniou to the theatment artifice of bringing down a God from Dlympus, to solve the difficulty of the discount,—the Down or asserted of Horses. We make this remark to roution the reader against supposing that the objection is to a production intelligency.

composed as he said by Amsagonas, when he came to that part in which he says that intellect orders and is the couse of all things, I was delighted with this cause, and thought that in a certain respect it was an excellent thing for intellect to be the cause of all and I considered if this was the case, disposing intellect would adom all things, and place everything in that situation in which it would subsist in the best manner. If any one therefore should be willing to discover the cause through which everything is generated or corrupted, or is, he ought to discover how it may subsist in the best tennice, or suffer, or perform morthing else. In consequence of this therefore, it is proper that a man should consider nothing the. either about himself or about others, except that which is the most excellent and the best; but it is necessary that he who knows this should also know that which is subordinate, since there is one and the same science of both. But thus reasoning with myself, I rejoired, thinking that I had found a preceptor in Associatoria who would instruct one in the causes of things agreeable to my own our ceptions; and that he would inform me in the first place whether the sorth is flat or round, and afterwards explain the cause of its being so, adducing for this purpose that which is better, and show ing that it is better for the earth to exist in this manner. And if he should say that it is situated in the middle, that he would beside this show that it was better for it to be in the middle-and if be should render all this apparent to me, I was so disposed as not to require any other species of cause, for I by no means thought, after he had said that all these were orderly disposed by intellect, he would introduce any other cause for their subsistence except that which shows that it is better for them to exist in this master. Hence I thought that in readering the cause common to each particular and to all things, he would explain that which is best for each and is the common good of all. And indeed I would not have exchanged these hopes for a mighty gain! But having obtained his books with profigious regerness, I read them with great colority, that I might with great celerity know that which is lest and that which is been.

But from this admirable hope, my friend, I was forced away, when in the course of my reading I saw him make no use of intellect, nor employ certain causes for the purpose of orderly disposing particulars, but notion mir, ather, and water, and many other things equally absurd, as the course of things. And he appeared to use in he affected in a manner similar to him who should never that all

the notions of Scenates are pendaced by intellect; and afterwards, endramouring to relate the causes of each particular action, should say that I now sit here because, in the first place, my body is composed of hones and nerves, and that the hones are solid and are separated by intervals from each other; but that the nerves, which are by nature capable of intension and remission, cover the bones together with the skin in which they are contained. The bones therefore, being suspended from their joints, the nerves, by straining and relaxing them, comble me to bend my limbs as at present; and through this cause I here six in an indected position. And again, should assign other such like course of not now conversing with you, manely, trains and six and houring, and a thousand other particulars, neglecting the true crase, that since it appeared to the Athenians better to condown use on this account, it also appeared to me better and more just to sit here, and thus abilling, sustain the punishment which they have ordained me; for otherwise, by the dog, as it appears to me, these bones and nerves would have been carried long ago either into Megara or Bostia through an opinion of that which is best, if I had not thought it more just and becoming to sustain the punishment ordered by my country, whatever it might be, then to withdraw myself and rus away. But to call things of this kind causes is extremely abourd. Indeed, if any one should my that without possessing such things as hones and nerves I could not not us I do, he would speak the truth; but to nesert that I art as I do at present through these, and that I operate with this intellect, and not from a choice of what is best, would be an assertion full of extreme negligence and sloth; for this would be the consequence of not bring able to collect by division that the true canse of a thing is very different from that without which a rause would not be a cause."

Now this reasoning we take to be an ignoratio eleasts. The illustration made use of is nothing to the purpose, and would be admitted by Anaxogorus as true, without in the least impuguing his

argument.

The Intelligence, which Anatagoras conceived, was in no wise a moral Intelligence it was simply the prisons asolile, the all-knowing and motive force by which the arrangement of the elements was affected. Hence, from a passage in Aristotle, some have inferred that the sofe was only a physical principle, the sole office of which was to set matter in motion. This is an error easy of explanation. Men are still so accessomed to conceive the divine Intelligence as only

a more perfect and evalued human futelligence, that where they see no traces of the latter they are prone to question the existence of the former. When Answayorus says that New was the creative principle, men instantly figure to the unselves a New similar to human intelligence. On examination they find that seek in intelligence us they conceive his no place in the doctrine, whereupon they declare that Intelligence has no place there; the New, they much means no more than Motion, and might have been called Motion.

But fortunately Simplicius has proserved a long passage from the work of Amazagoras; we have already quoted a portion of it, and shall now adject one or two sentences in which the Nous, as a cognitive power, is distinctly set forth; and we quote these the more readily because Bitter, to whom we are indebted for the passage, has not translated it :- Intelligence is, of all things, the subtlest and purest, and has entire knowledge of all. Everything which has a soul, whether great we small, is governed by the landligence (reference); Intelligence knows all things (where Poss 1964), both those that are mixed and those that are separated; and the things which ought to be, and the things which were, and those which now are, and those which will be; all are arranged by Intelligence (wours decorpore rece. (1) Here the creative, or rather disposing, faculty is not more distinctly expressed than the cognitive. The New both buses and acts: this is its displicate existence. A grand conception: tue seldom rivalled in uncient agendation; one so far in advance of the epoch as to be a puzzle to all critics,

The relation in which the system of Anaxagorus stands to other systems may be briefly elementerized. The Infinite Matter of the Ionium breame in his hands the Aconvenevier. Instead of one substance, such as Water, Air, or Fire, he saw the necessity of admitting Many enlatances. At the same time, he carried out the Pythagorean and Eleatic principle of The One; thus avoiding the dislectical threats of Zeno against the upholders of The Many-Hogel and M. Consin would call this celecticism; and in one sense they would be correct; but inasmuch as Anaxagorus was led to be doutring by the development which the Ionium and the Eleatic principles had taken, and was not led to it by any celectical method, we

^{*} It would be needed after this to refer to the numerous expressions of Artifician confirmation. The critical tender will do well to consult Tree delections, Council Artificial to Anim, p. 456 of eq. Plato, in speaking of the near order on despite Quarter, p. 400.

must protest against the application of such a name. There was a truth dimly recognized by the Ionians, namely, that the nuterial phenomena are all reducible to some assuress or someon, some aggi. What that Beginning was, they variously sought. Amanporas also sought it; and his doctrine of perception contineed him that it could not be One principle, but Many; hence his homeosteriar. So far he was an Ionian. But there was also a truth dimly seem by the Elentics, namely, that The Many could never be remired into One; and as without One there could not be Many, and eith the Many only there could not be One; in other words, as God must be The One from whom the multiplicity of things is derived, the necessity of admitting The One as The All and the Solf-existent was proved. This reasoning was necepted by Anaxagorus. He saw that there were Many things; he saw also the necessity for The One. In so far he was an Eleutic.

Up to this point the two doctrines had been at variance a change of infinite depth yawned between them. Zeno's invention of Dinlectics was a result of this profound difference. It was reserved for Anaxagoras to bridge over the chasm which could not be filled up He slid so with ecosymmate skill. He accepted both doctrines, with some modifications, and proclaimed the existence of the Infinite Intelligence (The One) who was the Architect of the Infinite Matter (Someomerie, the Many). By this means he escaped each horn of the dilemma : he escaped that which good the Ionians, annuly, as to less and my the Infinite Matter became fashioned into worlds and brings; since Matter by itself-can only be Matter. He escaped that which goved the Elenties, as to Asie and why the Infinite One, who was pure and municed, became the Infinite Many, impure and mixed; since one thing could never be more than one thing, It must have some other thing on which to act, for it cannot act upon itself. Anaxagoras escaped both by his dualistic theory of Mind fashioning, and Matter fashioned.

A similar bridge was thrown by him over the deep chasm separating the Semandists from the Rationalists, with respect to the serigin of knowledge. He admitted both Seme and Remon; others had only admitted either Sense or Reason.

These two points entitle Assessments to a very high rank in the history of Philosophy; and we regret to see that Aristotle uniformly speaks disparagingly of him, but we believe that the great Stagints did not clearly apprehend the force of the doctrine he was combating.

§ III. EMPEROURES.

We are forced to differ from all historians we have consulted, except De Gerando, who besitates about the matter, respecting the place occupied by Empedocles. Brucker classes him among the Pythagorems; Ritter, amongst the Eleatics; Zeller and Hegel, as the precursor of the Atomists, who precede Amangorus; Bennunier, as the precursor of Amanagorus; Tennemann placing Diogenes of Apollonia between Amanagorus and Empedocles, but making Democritus precede them. When we come to treat of the doctrines of Empedocles, we shall endeavour to show the filiation of ideas from Amanagorus. Memowhile it is necessary to examine the passage in Aristotle, on which very contradictory epinions have been grounded.

In the 3rd chapter of the 1st book of Asstotle's Metaphysics, after a purigraph on the system of Empedocho, occurs this prompt.

But Anaxagorus of Clarenceur being superior to him (Empedocho) in respect of age, but inferior to him in respect of opinions, said that the number of principles was infinite." By "superior" and "inferior" we preserve the antithesis of the original, but it would be more intelligible to say, "afiler" and "inferior."

There are two other interpretations of this passage. One of them is that of M. Consin (after Hegel), who believes that the antithesis of Aristotle is meant to convey the fact of Anaxagonis, although older in point of time, being more recent in point of published doctrine than Empedocles, having written after him. This is his translation: 'Anaxagonis, qui anquit arent ce dernier, main qui écrivit après bai.'

The second is that adopted by M. Renourier from M. Ravasson, who interprets it as meaning that the doctrine of Assengeras, though more arcient in point of publication, is more errent in point of thought; i. e. more developed philosophically, although historically earlier.

Now we believe both these interpretations to be erroneous. There is no ground for them except the autithosis of Aristotle; and the original of this disputed passage is. 'AsoSoryious & & Khajonious vij pile (Asolis πρότερος δει τούτου, τοῦς & δργοις (στερος; which is rendered by MM. Pierren and Zérort: 'Anazogore de Clasonious, l'ainé d'Empédocle, w'était pas avviré à un système acusi plessoble.'*

This agrees with our version. We confess however that on a first glance M. Cousin's version better preserves the force of the

[&]quot; La Miligalyniya d'Arribba, L 251.

antithesis τῆ μόν ἡλικός πρότερος—τοῖε Ε΄ ἐργοιε ὕστερος. But other reasons present a consumence in this interpretation. M.M. Pierron and Zésort, in their note on the passage, remark: 'Mais be mots έργο, έργου, dans une opposition, out ordinairement une signification vague, comme re, revers, cher les Latins, et, cher nous, en fuit, en réalité! The force of the objection does not strike us. If Anaxagorus was in fact, in reality, posterior to Empedoche, we can only understand this in the sense M. Consin has understood Aristotle; and moreover, M.M. Pierron and Zévort here contradict their translation, which says that, in point of fact, the system of Anaxagorus was not so plansible as that of Empedoches.

More weight must be laid on the meaning of corresp, which certainly exempt be exclusively taken to mean posterior in point of time. In the 11th elupter of Aristotle's 5th book he trents of all the significations of sporoses and forecos. One of those significations is superiority and inferiority. In the sense of inferiority forespot is often used by the poets. Thus Sophoeles:—

"O purpose (flore sai yemmele Terrepose!

*O shuseful cluenctor, below a woman !"

'Inferior' is the primitive meaning; in English we say, ' second to none,' for 'inferior to none.'

This meaning of ferrepor, namely, of inferiority, is the one always understood by the old commentators on the passage in question; none of them understood a chronological potentialty. Hostopes indicates priority in point of time; forepor inferiority in point of merit. Thus Philoponus; 'Prior quidem tempore, and posterior at mancus seemedum opinionem' (fol. 2 a); and the anonymous schollast of the Vatican MS; appropriate of the Vatican MS; appropriate indication time, but second and hybrian in point of doutring.'

The only question which now remains to be answered in order to establish the truth of the foregoing interpretation of foregos, is this: Did Aristotle regard the system of Anoxagorus as inferior to that of Empedoeles?

This question we can answer distinctly in the affirmative. The render will remember our citation of the passage in which Aristotle blemes Amazageous for never employing his First Cause (Intelligence) except upon emergencies. Aristotle continues thus: 'Emperiories employs his course source abundantly, though not indeed authorizing, Kai Epirelockie éri nhios pie reorge appear rois airios, of all olde feature. Met. 1.

Chronology is moreover in favour of our view. Anaxogous was born about the 70th Olympiad; Empedocles, by general consent, is said to have flourished in the 84th Olympiad; this would make Anaxogous at least fifty-six years old at the time when Empedocles published his doctrine, after which age it is berely probable that Anaxogous would have began to write; and even this probability tunishes when we look back upon the life of Anaxogous, who was tracking in Athens about the 76th or 77th Olympiad, and who died at Lampsacus, in easile, in the 88th Olympiad, tie, sixteen years after the epoch in which Empedocles is said to have flourished.

Trusting that the above point was not unworthy of brief discussion, we will now commence the narrative.

Empedorles was born at Agrigentum, in Sieily, and fourished about the Sith Olyrsquad (n. c. 444). Agrigentum was at that period at the height of its splendour, and was a formulable rival to Syncuse. Empedoeles, descended from a wealthy and illustrious family, acquired a high reputation by his resolute espousal of the democratic party. Much of his wealth is said to law been spent in a singular but honourable manner: namely, in bestowing dowries on poor girls, and marrying them to young men of rank and consequence. Like most of the early philosophers, he is supposed to have been a great traveller, and to have gathered in distant lands the wondrous store of knowledge which he displayed. It was assumed that only in the far East could be have learned the potent secrets of Medicine and Magic; only from the Egyptian Magicould be have learned the art of prophery.

It is probable, however, that he did travel into Italy, and to Athens. But in truth we can mention little of his personal history that is not open to question. His name rivals that of Pythogoras in the regions of falle. The same august majesty of demeanour and the same marvellous power over nature are attributed to both. Miracles were his postimes. In prophecy, in medicine, in power over the winds and rains, his wonders were so numerous and so renowned, that when he appeared at the Olympic Games all eyes were reverentially fixed upon him. His dress and demeanour accorded with his reputation. Haughty, impossioned, and eminently distancested in character, he refused the government of Agrigoration when freely offered him by the citizens; but his love of distinction showed itself in priestly garments, a golden guide, the Delphic crown, and a numerous train of attendants. He proclaimed him-

self to be a God whom men and women reverently adored. But we must not take this literally: he probably only 'assumed by anticipation on bosour which he promised all southwayers, priests, phymenns, and princes of the people.'

Fable has also taken advantage of the mystery which overlangs his death, to create out of it various stories of marvel. One relates, that, after a sacred festival, he was drawn up to beaven in a spleudour of celestial effalgence. Another and more popular one is, that he threw himself headlong into the creater of Mount Ætna, in order that he might pass for a God, the cause of his death being unknown; but one of his brates sandals, thrown out in an emption, revealed the secret.

A similar uncertainty exists as to his Teachers and his Writings.

Pythogoras, Parmenides, Xenophanes, and Anaxagoras have all been
positively named as his Teachers. Unless we understand the word
Teachers in a figurative sense, we must absolutely reject these statements. Diogenes Lacretius, who reports them, does so in his dullest
manner, with an absence of criticism remarkable even in him.⁴⁸ Considering that there was, at least, one hundred and forty years between Pythagoras and Empedocles, we need no further argument todisprove any connection between them.

Diogenes, on the authority of Aristotle (as he says), attributes to Empedicies the invention of Rhetorie; and Quinculian (iii. c. 1) has repeated the statement. We have no longer the work of Aristotle; but, as Ritter says, the assertion must have arisen from a misunderstanding, or have been said in jest by Aristotle, because Empedicies was the teacher of Gorgias: most likely from a rossunderstanding, since Sextus Empiricus mentions Aristotle as having said that Empedicies first incited, or gave on impose to Rhetorio.† Aristotle, in his Rhetorio, declares that Corax and Tisias were the first to publish a written Treatise on Eloquence. We feel the less hesitation in rejecting the statement of Diogenes, because in the very passage which succeeds he is guilty of a very gross misquotation of Aristotle, who, as he says, 'in his book of The Poets speaks of Empedicies as Homeric, powerful in his aloquence, rich in metaphors, and other poetical figures.'; Now this work of Aristotle on the

Description is one of the stupidest of the stupid race of compilers. His work is useful become containing commonal extracts, but can rarely be relied on for anything also.

[†] Houres errorpina. - Air. Mat. vii.

Poets is fortunately extract, and it proclaims the very reverse of what Diogenes alleges. Here is the passage — Costom, indeed, connecting the poetry or making with the nestre, has deministed some elegiac poets, others rpic poets: thus distinguishing poets, exaccording to the nature of their imitation, but according to that of their metre only; for even they who composed treations of Medicine, or Natural Philosophy in verse, are demonstrated Pacts yet Houses and Empedocies have nothing in cannot except their nature; the former, therefore, justly merits the name of Pact; the other should rather be called a Physiologist than a Poet.

It is indeed quite possible that Diogenes may have had before him a book expl reserve, perhaps one of the many sparious treatises current under Aristotle's name; but it is not probable that Aristotle would have expressed an opiniou so contrary to the ungiven in his authentic work.

The diversity of opinion with respect to the position of Empelocles, indicated at the opening of this Chapter, is not without significence. That men such as Hegel, Bitter, Zeller, and Tennemum should see reasons for different classification cannot be without impretance to the Historian. Their arguments destroy each other; im it does not therefore follow that they all build mean false grounds, Each view loss a certain trath in it; flut, not being the whole truth, it cannot prevail. The cause of the difference seems to be this: Empedocles has something of the Pythagurean, Electic, Heraclitic, and Auxangurean systems in his system; so that each listorian, detecting one of these elements, and omitting to give the importance to the others, has connected Empedocles with the system to which that one element belongs. Bitter and Zeller him, however, been aware of some of the complex relations of the detrine, but failed, we think, in giving it its true position.

Respecting human knowledge, Empedacies belongs partly to the Elentics. With them, he complained of the imperfection of the Scuses; and looked for truth only in Beason, which is partly humm and partly divine; it is partly clouded by the senses. The divine knowledge is opposed to sensous knowledge; for meacannot approach the divine, neither can be seize it with the band nor the eye. Hence Empedacles conjutued the duty of contemplating God in the mind. But he appears to have proclaimed the existence of this divine knowledge without attempting to deter-

^{*} Dr Postavil

mine its relation to human knowledge. In this respect he resembles rather Xenoplanes than Parmendes,*

We have no clear testimony of his having studied the works of Amangoras; but, if we had, it might not be difficult to explain his inferior theory of knowledge; for, in truth, the theory of Amanagoras was too far in advance of the age to be rightly approhended. Empedocles therefore adhered to the Eleatic theory. With Xenophanes, he bewaited the definition of the senses and esperiesce. Listen to his lament:

*Swift-dated and conscious, how belief is life's plotsumbest parties?

Like the wind-driven stanks, they are current backwards and forwards.

Each trusting to nought same what his experience trushes.

On all sides distracted; yet wishing to find out the whole truth,

In wise a neither by eye nor ear perceptible to man.

Nor to be prouped by wind: and then, when thus then hast wandered,

Wilt find that no further reaches the knowledge of meetals.

These verses seem to indicate a scepticism of Reason as well as of the Senses; but other passages show that he uplied the integrity of Reason, which he thought was only presented from revealing the whole truth because it was imprisoned in the body. Mundane existence was, in his system, the doom of such immortal scale as had been disgraced from Heaven. The Fall of Man he thus distinctly ensureinted:

The is the law of Fate, of the Gode an olden customent.
If with guilt or marder a Damoot polluteth his members,
There was thousand yours must be wanter apart from the blossed.
Hence, doorsed I stray, a fugitive from Gode and an enteret,
To raging strife submission.

But he had some more philosophical ground to go upon when he wished to prove the existence of Reason and of the Divine Nature. He maintained that like could only be known by like: through earth we learn the earth, through fire we learn fire, through strife we learn strife, and through love we learn love. If, therefore, the could only be known by like, the Divine could only be known by

^{*} Having quoted Aristotle's testimony of the summan nature of knowledge in the Empedacies theory, we need only here never to it; adding that in this respect Empedacies ranks with Parasenides rather than with Xenophanea.

⁴ An immortal seed.

[†] We my here thinking for Empedoeles; we have no other authority for this statement, then that something of the kind is wanting to make out a plansible explanation of what is only implied in the fragments extant. The fragments tell us that he believed in Reason as the transcendent faculty; and sho that Reason did in seese way recognize the Divise. All we have done is to impoly the link wanting.

Divine Beason; and, innomuch as the Divine is recognized by man, it is a proof that the Divine exists. Knowledge and Existence mutually imply each other.

Empedocles resembles Xenophases also in his attacks on anthropomorphism. God, he says, has neither head adjusted to limbs like

human beings, nor legs, nor hands;

"He is, wholly and profectly, mind metfalds, hely,

With rapid and swift-glassing thought pervading the whole world?

We may compare these verses with the line of Xenophanes-

"Without labour he reacth all things by reason and insight."

Thus for Empeducies belonged to the Elentics. The traces of Pythogorus are fewer; for we cannot regard as such all those analogies which the ingeneity of some critics has detected.* In his life, and in his moral precepts, there is a strong resemblance to Pythogorus; but in his philosophy we see none beyond metempaychesis, and the consequent abstinence from animal food.

Herzelitus had said there was nothing but a perpetual flux of things, that the whole world of phenomena was as a flowing riser, ever-changing yet apparently the same. Ananogoras had also said that there was no creation of elements, but only an arrangement. Empedocles was now to anadgamate these views. 'Fools!' he exclaims,

'Who think might can begin to be which formerly was not.
Or, that might which is, can perish and otterly decay, if
Another truth I now infold: no matural high
In there of mortal things, nor death's destruction final;
Nothing is there but a mightage, and then a separation of the missief.
Which are called a birth and death by ignormal months?

So distinct a relationship as these verses manifest towards both Herarlitus and Amangeers will account for the classification adopted by Hegel, Zeller, and Renouvier; at the same time it gives greater strongth to our opinion of Empedocles as the successor of these two-

The differences are however as great as the resemblances. Having asserted that all things were but a mingling and a separation, he must have admitted the existence of certain primary elements which were the materials mingled.

^{*} See them noticed in Zeller, Philos ster Gricolos, pp. 169-173 (1840).

[†] Compare Amazagoma, as quested above: † Wrongly do the Greeks represented aught begins or consents be.

I Compare Astronomes: 'So that all-becoming stight more properly be railed becoming mixed, and all-correction becoming separate.'

Heraclitus had affirmed Fire to be both the principle and the element; both the moving, mingling force, and the mingled matter. Anaxagorus, with great logical consistency, affirmed that the primary elements were Associated in, since nothing could proceed from nothing, and whatever was arranged most, therefore, be an arrangement of primary elements. Empedoeles affirmed that the primary elements were Four, viz. Earth, Air, Fire, and Water: out of these all other things proceed; all things are but the various minglings of these four.

Now, that this is an advance on both the preceding conceptions will searcely be denied; it bears indubitable evidence of being a later conception, and a modification of its unfeccients. Nevertheless, although superior as a physiological view, it has not the logical consistency of the view maintained by Anacagoras; for, as Empedocles taught that like can only be known by like, i.e. that existence and knowledge were identical and mutually implicative, he ought to have maintained that whatever is recognized by the mind as distinct, must be distinct is esse.

With respect to the Formative Power, we see the traces of Heraclitus and Anaxagorus in about the same proportion. Heraclitus maintained that Fire was impelled by irresistible Desire to traveform itself into some determinate existence. Anaxagorus maintained that the infinite Intelligence was the great Architect who arranged all the material elements, the Mind that controlled and flabioned Matter. The great distinction between these two systems is, that the Fire transforms itself, the New transforms something which is radically different from itself. Both these conceptions were analgamated by Empedocles. He might that Love was the creative power. Wherever there is a mixture of different elements Love is twerted.

Here we see the Desire of Herselitus sublimed into its highest expression, and the Noss of Anaxagorus reduced to its moral expression. Love. The difficulties of the Herselitean doctrine, namely, as to how Fire can over become anything different from Fire, are avoided by the adoption of the Anaxagorean dualism; while the difficulties of the Anaxagorean doctrine, namely, as to how the great Arranger was moved and incited to arrange the primary elements, are in some measure avoided by the natural desire of Love (Aphredite).

But there was a difficulty still to be overcome. If Love was the creator, that is, the Mingler, what caused separation? To explain this, he had recourse to Hate. As the perfect state of supramuldane existence was Harmony, the imperfect state of numbers existence was Discord. Low was, therefore, the Formative Principle, and Hate the Destructive. Hence he said that

"All the mushers of God war togethers one after the other."

This is but the phrase of Heraelitas, 'Strife is the purent of all thines.1 It is nevertheless most probable that Empedoeles regarded Hate as only a mundant power, as only operating on the thratte of the world, and nowise disturbing the abode of the Gods." For, inasmuch as Man is a fallen and percented God, doomed to wanter on the face of the earth, sky-aspiring, but sense-clouded; so mar Hate he only percerted Love, stranging through space. Does not this idea accord with what we know of his opinious? His conception of God, that is, of the Oue, was that of a "sphere in the house of harmony fixed, in culm rest, gladly rejoicing," This quickent sphere, which is Love, exists above and around the moved World. Certain points are loosened from the combination of the riements, but the unity established by Love continues. Rither is convinced that ' Hate has only power over the smaller portion of existency, over that part which, discounceting itself from the whole, contaminates itself with crime, and thereby devolves to the errors of mortals."

Our account of Empedoules will be found to vary considerably from that in Aristotle; but our excuse is furnished by the great Stagarite himself, who is constructly telling us that Empedocles gave no reasons for his opinions. Moreover, Aristotle makes us aware that his own interpretation is open to question; for he says, that this interpretation can only be obtained by pushing the premises of Empedocles to their legitimate conclusions; a process which destroys all historical integrity, for what thinker also push his premises to their utmost limits?

§ IV. DESCOURTERS.

The laughing Philosopher, the traditional antithesis to Heraclitas, was born at Abdern (the new settlement of the Teians after their abandonment of Ionia), in the 80th Olympind (e. c. 400). His claim to the title of Laugher, \(\delta\) \(\gamma\) chanties, has been disputed, and by moderns generally rejected. Perhaps the untive stupidity of his countrymen, who were renowned for almoing the privilege of being

^{*} As opinion subsequently put forth by Plate in the Planton.

stepid, afforded him incessmit matter for hughter. Perhaps he was by nature satirital, and thought ridicals the test of truth. He was of a poble and wealthy family, so wealthy that it entertained Xernes at Abders. Xernes in recomposes left some of his Magi to instruct the young Democritus. Doubtless it was their tales of the wonders of their native land, and the deep unspeakable wisdom of their priests, which inspired him with the passion for travel. "I, of all men," he says, "of my day, have travelled over the greatest extent of country, exploring the most distant lands; most climates and regions have I visited, and listened to the most experienced and wisest of men; and in the calculations of linemeasuring no one bath surposed me, not even the Egyptians, amourst whom I sojourned five years.' In travel he spent his patrinous; but he exchanged it for an amount of knowledge which no one had previously equalled. The Abderites, on his return, broked on him with vague wonder. The sun-burnt traveller brought with him knowledge which, to them, must have appeared divine. He exhibited a few samples of his lore, foretold unexpected changes in the weather, and was at once exalted to the summit of that power to which it is a nation's pride to how. He was offered political suscemer, but wisely declined it.

It would be idle to detail here the various ancedotes which tradition bands down respecting him. They are mostly either impossible or improbable. That, for instance, of his lawing put out his eyes with a burning-glass, in order that he might be more perfectly and undisturbably acquainted with his reason, is in violent contradiction to his theory of the eye being one of the great inlets to the soul. Tradition is less questionable in its account of his having led a quiet sober life, and of his dying at a very advanced age. More we cannot credit.

Brapecting his Philosophy there is some certain evidence; but it has been so enricoidly interpreted, and is in many parts so obscure, that historians have been at a loss to give it its due position in relation to other systems. Brinhold, Brandis, Marbach, and Hermann view him as an Ionian; Bahle and Tennemann, as in Eleatic; Hegel, as the successor of Herarlitus, and the predocessor of Anaxagorus; Bitter, as a Sophist; and Zeller, as the precursor of Anaxagorus. Of all these attempts at classification, that by Bitter seems to me the weest. Because Democritus has an occasional phrase implying great vanity—and these mentioned by Ritter seem to us to imply nothing of the kind—be is said to be a Sophist!

Democritus is distinguished from the Lenius by the denial of all sensible quality to the primary elements; from the Elenties by his afformation of the existence of a multiplicity of elements; from Haracistus on the same ground; from Assessgoras, as we shall see presently; and from Empedocles, by danying the Four Elements, and the Formative Lave. All these differences are radical. The resenblances, such as they are, may have been coincidences, or derived from one or two of the later thinkers: Parmenides and Assessgoras, for example.

What did Democritus teach? This question we will endurous to mover somewhat differently from other historians; but our answer shall be whally grounded on precise and contain data, with no other originality than that of developing the system from its cen-

tral principle :

To commence with Knowledge, and with the passage of Aristotle, universally accredited though variously interpreted: 'Democritus says, that either nothing is true, or what is true is not exident to us. Universally, in his system, the semation constitutes the thought, and as at the same time it is but a change [in the scatical being], the sensible phonomena (i. e. seasolisse) are of accessity true.18 This pregnant passage means, I think, that sensation, inasmuch as it is scusation, must be true: that is, true solderfield; but sensation, inasanuch as it is sensation, cannot be true objectively. M. Renonvier thinks that Democritus was the first to introduce this distinction; but our resders will remember that it was the distinction established by Annagorus. Sexton Empirican quotes the very world of Democritus: "The smoot exists orde in farm, the bitter in farm, the hot in form, the cold in form, educar in form; but in count reality (airly)? only atoms and space exist. The sensible things which are supposed by opinion to exist have no real existence, but only atoms and space exist." When he says that executess, lent, colour, etc., exist as form only, he means that they are search images constrally ensenting from things; a notice we shall explain presently. A little further out, Sextus reports the opinion, that we

Modern editors read reck, "in multip." We are inclined however to preserve the obtaining, so more antitle-tiral to plan.

⁸ Televa nidár elem Abylis é fijár y felyben. 100mp hi hái sa imohapheredologras per ele niloffrens márgo é elem distributes, på quasiprese med 190 alectura é distribute displication —Metaph, in. 5.

[&]quot; Mr Matthew, vo. 1831.

only perceive that select falls in upon us according to the disposition of our bodies; all olse is hidden from us:

Neither Condillae nor Destrict de Tracy has more distinctly identified sensation and thought, than in the above passages. But Democritus does so in the spirit of Kant rather than that of Condillar; for, although with the latter he would say, 'Peaser, e'est sentir,' yet he would with the former draw the distinction between phenomenal and nonmenal perception.

But did sensation constitute all knowledge? Was there nothing to grade man but the reports of his senses? Democratus said there was Reflection.*

This Reflection was not the source of absolute truth, but fulfilled a controlling office, and established certitude, as far as there could be certitude in human knowledge. And the existence of this Reflection was asserted very much in the style of the celebrated addition to the aphorism, 'Nothing is in the Mind which was not previously in the Senses,' when Leibnitz added, 'except the Mind inself,' Demonitus, aware that most of our conceptions are derived through the senses, was also aware that many of them were interly independent, and in defiance of the Senses. Thus the 'infinitely small' and the 'infinitely great' escape Sense, but are affirmed by Reflection. So also the alease which his Reason told him were the primary elements of things, he could never have known by Sense.

Thus far we have seen Democritus only as the inheritor of Anaxageras; but the epoch we are now considering was distinguished by the greater attration bestowed on the origin of knowledge, and we may reasonably expect that Democritus had devoted considerable thought to the subject, and had originated some view of his own.

He was not content with the theory of Anaxagoras. There were difficulties which remained unsolved by it; which, indeed, had never been appreciated. This was the grand problem Democritus set himself to solve; How do see perceive external things. It is no answer to my that we perceive them by the senses. This is no better an explanation than that of the occult quality of opinin, given by Molière's physician; 'L'opinin endomnit purce qu'il a une verta soporatque.' The question arises:—How is it that the scaues perceive?

No one had taked this question; to have asked it, was to form an

⁴ dainest paymology, no less than psychology, justifies this translation.

era in the history of Philosophy. Men began by reasoning on the reports of the senses, manupicious of error: when they saw anything, they concluded that what they saw misted, and existed as they saw it. Afterwards came others who began to question the accuracy of the senses. Leatly, came those who denied that accuracy altogether, and pronounced the reports to be more delusions. Thus the question forced itself on the mind of Democritus—In what mames could the senses perceive external things? Once settle the usake operandi, and then the real efficiery of the senses may be estimated.

The hypothesis by which he attempted to explain perception was both ingrnises and hold; and many centuries clapsed before a better one was suggested. He supposed that all things were constainly throwing off images of themselves (ellecka), which, after assimilating to themselves the surrounding sit, enter the soul by the poes of the sensitive organ. The eye, for example, is composed of aqueon humours; and water sees. But how does nater see? It is finphanous, and receives the image of whatever is presented to it.

This is a very rade and material hypothesis; but did not philoso places, for centuries, believe that their senses received impression of things? and did they not suppose that issues of things were reflected in the mind? This latter hypothesis is, perhaps, less also sionally fantastic and gratuitous; but it is also less tenable; for his is it that the mind becomes a mirror reflecting the images? The hypothesis stands as much in need of explanation as the phenomenon it pretends to explain.

The hypothesis of Democritus, once admitted, serves its purpose; at least, to a considerable extent. Only the external surface of a body is thrown off in the shape of an sideaker or image, and sum that only imperfectly and obscurely. The figure thrown off is see a perfect image of the object throwing it off. It is only an image of the external form, and is subject to variations in its passage to the mind. This being the case, the strictly phenomenal nature of all knowledge is necessarily exhibited. The idea or images, being themselves imperfect, our knowledge is necessarily imperfect.

With this theory of knowledge how could be answer the other, greater, question of Creation? It is said that he rejected The One of the Electics, The Four of Empedocles, and the Houseouris of Anaxagonas, and declared Afosos, invisible and intangible, to be the primary elements; and that all things were but modes of one of the triple arrangements, namely, configuration, conduction, and position. The atom, being indivisible, in necessarily one; and, being

one, is necessarily self-existent. By this hypothesis, therefore, Demorritus estisfied the demands of those who declared that the selfexistent must be One; and of those who declared that there were many things existing, and that the One could never be more than the One, never become the Many. He analyzmated the Ionius and Eleatic schools in his speculation, correcting both. He, doubtless, derived this idea from the fosswonerie of Anaxagoras; or, as those who place Anaxagoras later than Democratus would say, originated this idea. It becomes a question, therefore, which of those speciabeings bears the inuress of greater maturity. On this spection we cannot hesitate to pronounce. The idea of Assistances betrays its more primitive nature in this: it attributes positive qualities to atom, which qualities are not changed or affected by combination or arrangement. The idea of the atom divested of all quality, and only assuming that quality as phenomenal other in combination with other atoms, and changing its quality with every change of combination, is infultitably a far more scientific speculation; it is also obviously later in point of development.

From the axiom that only 'like can set upon like,' Anaxogoras formed his homoveries. Democritus accepted the axiom, but gave it a wider application. If only like can set upon like, said be, then must all things be alike is ease; and the only differences are those of phenomena, i.e. of manifestation; these depend on combination and arrangement.

Atomism is homomorphism stripped of qualities. It is therefore the system of Anaxogoms greatly improved.

The Atomism of Democritus has not been sufficiently appreciated as a speculation. It is one of the profoundest yet reached by human subtlety. Leibnitz, many centuries afterwards, was ted to a doctrine essentially similar; his relebrated Monadologic is but Atomius, with a new terminology. Leibnitz called his Monad a force, which to him was the prison nonterior. So also Democritus denied that atoms had any wright; they had only force, and it was the impulsion given by superior force which constituted weight. It is worthy of remark that not only did these thinkers concur in their doctrine of atomism, but also, as we have seen, in their doctrine of the origin of knowledge: a coincidence which gives weight to the supposition that in both minds one doctrine was dependent on the other.

From what has already been said, the resider may estimate Ritter's assertion, that it would be in vain to seek for any profounder view.

in the theory of Democritus than that common to all mechanical physicists who sought to reduce everything to mathematical correstions; an assertion as preposterous as that which follows it; mannly, that Democritus arrived at his atomic theory in the same way as modern physicists,-from a bias for the mechanical consideration of Nature. Ritter here contradicts houself. Having first declared that there was nothing in the Democritiza theory but what the Ionians had proviously discovered, he next declares that this theory is the same as that of the modern atomic theory. We are provide to which decision we shall award the palm of historical misosucrytion. The modern atomic throny is the law of definite proportions: the ancient theory is merely the afficiention of indefinite combine. floss. Between these two conceptions there is precisely the difference between Positive Science and Philosophy. Instead of being similar conceptions, they were neither arrived at in the more way, nor have they the same signification.

Attempts have been made, from certain expressions attributed to Democritus, to deduce an Intelligence, somewhat similar to that in the Anneagorem doctrine, as the Formative Principle. But the evidence is so small and so questionable, that we refrain from pronouncing on it. Certain it is that he nitributed the formation of things to Destiny; but whether that Destiny was intelligent or not is uncertain.

In conclusion, we may observe that his system was an advance on that of his producessors. In the two great points of psychology and physics, which we have considered at length, it is impossible to mistake a very decided progress, as well as the opening of a new time in each department.

THIRD EPOCH.

INTELLECTUAL CRISIS—THE INSUFFICIENCY OF ALL ATTEMPTS TOWARDS A SOLUTION OF THE PROBLEM OF EXISTENCE, AS WELL AS THAT OF KNOWLEDGE, PRODUCES THE SOPHISTS.

THE SOPHISTS.

\$ I. WHAT WERE THEY?

The Sophists are a much calumniated mee. That they should have still, is an evidence that historical criticism is yet in its infancy. In raising our voices to defend them we are aware of the paradex; but looked at nearly, the paradex is greater on the side of those who credit and repeat the traditional account. In truth, we know of few charges so unanimous yet so paradexical as that brought against the Sophists.* It is as if manked had consented to judge of Socrates by the representation of him in The Claude. The carricature of Socrates by Aristophanes is quite as near the truth as the carricature of the Sophists by Plato; with this difference, that in the one case it was inspired by political, in the other by speculative antipathy.

On the Sophists we have only the testimony of antagonists; and the history of mankind clearly proves that the cumities which

^{*} It is proper to since that the nord view of the position and character of the Sophists advanced in this Chapter was published five years before the advantable Chapter of Mr. Grete's History of Green, wherein that crudits and thoughtful writer brings his learning and sequenty to the most thorough charalities of the question it has yet received. In claiming priority in this point of historical critimen, it is right for me to acknowledge that Mr. Green subsampanes his view with overwhelming force of argument and criticism; and in perising the present Chapter I have been much indefined to his criticisms and citations.

[†] See is particular that arrasing dialogue the Eethydeman which is quite as exaggerated as Anatophino-

arise from difference of pace and country are feeble compared with the enmittee which arise from difference of creed: the former may be lossened by contact and intercourse; the latter are only aggravated. Plate had every reason to dislike the Sophists and their opinions; he therefore lost no occasion of ridiculus; the one and misrepresenting the other. And it is worthy of especial remembrance that this hostility was peculiarly Platenic, and sat Socratic; for, as Mr. Grote results on, there is no such marked antithesis between Socrates and the Sophists in the biographical work of Xenophon. Plate however, and those who followed Plate, misrepresented the Sophists, as in all agos antagonists have misrepresented each other.

The Sophists were wealthy; the Sophists were powerful; the Sophists were damling, rhetorical, and not profound. Interrogate human nature-above all, the nature of philosophers-and ask what will be the sentiment entertained respecting those Sophists by their rivals. Ask the solitary thinder what is his opinion of the showy, powerful, but shallow theorieian who usuaps the attention of the world. The man of convictions has at all times a smerk contempt for the min of mere oratorical or dialectical display. The thinker knows that the world is ruled by Thought, yet he sees Expression gaining the world's attention. He knows perhaps that he has within him thoughts pregnant with human welfare; yet he sees the giddy multitude intoxicated with the enthusiasm excited by some plausible fallier, elothed in enchanting longuage. He sees through the fallacy, but cannot make others as clear-sighted. His warning in unheeded; his wisdom is soumed; his architem in fendanted: the popular Idel is carried onward in triumph. The neglected thinker would not be human if he beer this with equalmity. He does not. He is loud and angry in lamenting the face of a world that can so be led; load and angry in his contempt of one who could so had it. Should be become the critic or historian of his age, what exactness ought we to expect in his account of the popular idel?

Somewhat of this kind was the relation in which the Sophists and Philosophers stood to each other.

The Sophists were lated by some because they were powerful, by others because shallow; and were misrepresented by all. In later traces their antagonism to Socrates has brought them ellevill; and this ill-will is strengthened by the very prejudice of the mann-Could a Sophist be other than a clean and a har? As well ask, could a Devil be other than Evil? In the name of Sophist all offices qualities are implied, and this implication percents our judgment. Call the Sophists Professors of Blactoric, which is their truest designation, and then examine their history; it will produce a very different impression.

Much succession has been devoted to the meaning of the word Sophist, and to the supposed conformation it everywhere carried. A Sophist, in the genuine sense of the word, was a visc man, a clever man, one who stood prominently before the public in distinguished for intellect or inlent of some kind. Thus Solon and Pytlagoess me both called Sophists; Thunyrus, the skilful bard, is called a Sophist; Socrates is so denominated, not merely by Aristophones, but by Evchines. Aristotle himself calls Aristippes, and Xenophonealls Autistheses, both of them disciples of Socrates, by that name, Xenoulou in describing a collection of instructive books calls them the writings of the old poets and Sophists. Fiato is alluded to as a Sophist even by Inscrates; Inscrates himself was hurshly enticized as a Sorbier, and defends both himself and his profession. Lautly Timon, who bitterly satirized all the philosophers, designated them all, including Plato and Aristotle, by the general name of Sophists.'s This proves the vagueness with which the term was employed: a like discrepancy might be detected in the modern use of the word 'metaphysician,' which is a term of honour or represent according to the speaker. Zeller says that the specific name of Sophist at that merely designated one who taught philosophy for pay. The ultilescephs might be good or bad; the characteristic designated by the enithet Sophistical was its demand of money-fires. The marrower meaning was given it by Plato and Aristotle. It matters little however what was the meaning attached to the name. Even were it proved that 'Sophist' was as injurious in those days as 'Socialist' in our eyrs, it would no more prove that the Sophists really taught the doctrines attributed to them than the mingled terror and detestation with which "Socialist doctrines" are described in almost all modern journals, pamphlets, speeches, and reviews, prove that the Socialists really teach what is there imputed to them.

We said it was a paradox to maintain that the Sophists really prorealigated the opinious usually attributed to them; and by this we mean that not only are some of those opinious nothing but caricatures of what was really maintained, but also that in our interpretation of the others we grossly err, by a confusion of Christian

^{*} Grets, Vill 190.

⁴ Philosophie der Granden, ernter Theil, 1866, p. 250.

with Heathen views of morality. Moderns cannot help regarding as fearfully immoral, ideas which by the Greeks were regarded as moral, or at least as not disregntable. For impance: the Greek orators are always eareful to impress upon their audience, that in bringing a charge against may one they are accounted by the strongest personal motives; that they have been injured by the secrossed; that they have good boxest hatred as a motive for accessing him. Can maything be more opposite to Christian feeling? A Christian accuser is just as survious to extracate himself from any charge of heavy influenced by personal considerations, as the Greek was of making the contrary evident. A Christian seeks to place his motive to the account of abstract justice; and his statemen world he received with great suspicion were it known that a personal feeling prompted it. The reason of this difference is that the Christian Ethics do not countesance pengeance; the Greek Ethics not only countenanced rengrance, but very much reproduced informers; consequently, whoever made an accusation half to clear himself from the ignomity of being an informer, and to do so he showed his personal motives.

This example will prepare the reader to judge, without preciptancy, the celebrated boost attributed to the Sophists, that they could 'make the worse appear the better reason.' This was said to be the grand aim of their cudeavours. This was called their around object. To teach this set, it is said, they demanded enormous sums; to learn it enormous sums were readily given, and given by many.

These assertious are severally false. We will take the last first. It is not true that encourses some were destrauded. Inserties affirms that their gains were never very high, but had been malirically eneggerated, and were very inferior to the gains of dramatic actors. Plate, a less questionable authority on such a point, makes Protagoras describe his system of demanding renumeration; "I make no stipulation beforehand; when a pupil parts from me, I ask from him such a sum as I think the time and the circumstances warment) and I add that if he deems the domaid too great, he has only to make up his own mind what is the amount of improvement which my company has procured to him, and what wan he considers in equivalent for it. I am content to accept the sum so named by himself, only requiring him to go into a Temple and make unth that it is his sincere belief." Plate objects to this, and to every other molt of 'selling wisdom,' but, so Mr. Grote remarks, 'such is not the way in which the corrundors of mankind go to work."

But let us traine the question of payment, to consider the tenching poid for. The Sophists, it is said, and believed, boasted that they could teach the art of making the worse appear the better reason; and in one sense this is true; but understanding this set as and one fore susfers/ood it, and thereby forming our notion of the Sophists, let us ask, Is it credible that such an art should have been avowed, and, being avowed, should be rewarded, in a civilized state? Let us think, for an instant, of what are its moral, or rather its immoral, consequences. Let us reflect how utterly it destroys all morality; how it makes the very laws but playthings for dialectical subtlety. Then let us not whether, as we understand it, any State could have allowed such open blaspheny, such definice of the very fundamental principle of honesty and integrity, such demolition of the social contract.

Could any State do this? and was Athens that State? We ask the reader to realize for himself some notion of the Athenians as citizens, not merely as statues; to think of them as human beings, full of human passions, not simply as architects, sculptors, ports, and philosophers. Having done this, we salt him whether he can believe that these Athenians would have listened to a man proclaiming all atorality a farce, and all law a quable-proclaiming that for a sum of money he could instruct any our how to make an unjust rouse appear a just cook Would not each a prorlamation be ansucred with a shout of derision, or of execution, according to the belief in his sincerity? Could my charlaton, in the corruptest age, have escaped Ingidation for such effrontery? Yet the Sophists were wealthy, by many greatly almired, and were selected as ambassadors on very delicate missions. They were men of splendid talents, of powerful connections. Around them flocked the rich and noble youth of every city they entered. They were the intellectual leaders of their age. If they had been what their adversaries describe them. Greece could only have been an earthly Pundemonium, where Belind was King.

To believe this is beyond our power. Indeed such a paradox it would be frivolous to refute, had it not been maintained for centuries. Some lawe endeavoured to escape it by maintaining that the Sophists were held in profound contempt; and certain passages are addreed from Plato in proof thereof. But the feet appears to us to be the reverse of this. The wealth and power of the Sophists—the very importance implied in Plato's constant potentic against them—prove that they were not objects of contempt. Objects of aversion

they might be to one party: the successful always are. Objects of centerage they might be, to some sincere and profound thinkers. The question here however is not one relating to individuals, but to the State. It is not whether Pinto despised Gorgias, but whether Athens allowed him to teach the most unblashing and undisquised immorability. There have been their during speculators in all times. There have been men absorders and corrupt. But that there has been any speculator so during as to promolgate what he know to be grossly immoral, and so shameless as to arow it, is in such contradiction to our experience of human mature as at once to be rejected.*

It is evident, therefore, that in tracking the art of 'making the worse appear the better remon,' the Sophists were not guilty of anything held to be reprobasible; honever serious thickers, such as Pinto and Aristotle, might detest the shallow philosophy from which it sprang.

But if this art was not reprehensible, except to severe minds, such as Plato and Aristotle, it is clear that it could not have been the art which its autagomets and definiers have declared it to be. If, as we have shown, movemal boman nature would have rebelled against a teaching which was avoisedly immural, the fact that the Sophists were not stoned, but were highly considered and well paid, is proof that their teaching was either not what we are told it was, or that such teaching was not considered immoral by the Greeks. Both of these negatives will be found true. The teaching of the Sophists was demonstrably not what is usually attributed to them, and what they did teach was very for from being considered as immoral. Let us consider both these points.

In the first place Mr. Grote has shown beyond dispose that the Sophists had no doctrine in common; they formed no sect or school of thought, such as modern Germans indicate under the name of Die Sophistik. There never was a Sophistik. Each teacher had his own doctrinal views, and was not more bound to the opinious of the others than a modern Barrister is bound to share the theology of the Bar, or than a modern teacher of Elocution is bound to vote on the same side with all other professors. No

^{*} We are told by Souths that Protagoras was conferenced to death by the Athenium because its professed himself unable to say whether the Gods existed, or what they were, using to the insufficiency of knowledge. Yet the Athenium are expressed to have tolerated the Sophiats as they are undestood by moderna!

somer is this fact apprehended, than the absurdity of attributing to
'the Sophists' epinions expressed by one Sophist, and that too in a
carrivature by Plato, is at torce apparent. Moreover the absurdity
of talking of the 'sophists of dov/rise' becomes apparent, and we are
forced to speak only of the 'sophistical avi,' reserving for any special
animalversion the special name of the offending sinner.

The Sophists taught the art of disputation. The atigious quibbling nature of the Greeks was the soil on which an art like that was made to flourish. Their excessive love of low-suits is familiar to all versed in Greeian history. The almost farcical representation of a law-suit green by Æschylus in his otherwise awful drama, The Envenisles, shows with what keen and finely interest the audience witnessed even the very details of hitigation. For such an appetite food would not long by wanting. Corax and Tesian wrote precepts of the art of disputation. Protugoras followed with dissertations on the most remarkable points of law; and Gorgius composed a set accusation and apology for every case that could present itself. People, in short, were taught to be their own advocates.

This was by no means an immoral art. If it wight or did lead to immorality, few Greeks would have quarrelled with an art so necessary. *Without some power of personding or confuting, of defending himself against accountions, or, in case of need, accusing others, no wan could possibly hold an ascendant position. He had probably not less need of this calent for private informal conversations to satisfy his own political partisons, than for addressing the public assembly fermally contoked. Even commanding an army or a fleet, without any laws of war or liabit of discipline, his power of keeping up the good-humour, confidence, and prompt obedience of his men, depended not a little on his command of speech. Norwas it only to the leaders in political life that such an accomplishment was indispensable. In all democracies, and probably in several Governments which were not democracies but oligarches of an open character, the courts of justice were more or less numerous, and the procedure real and public; in Athens especially the Dicas. teries were both very numerous and were paid for attendance. Every citizen bad to go before them in person, without being able to send a paid advocate in his place, if he either required redress for wrong offered to himself, or was necessed of wrong by another. There was no man therefore who might not be east or condemned, or fail in his own snit, even with right on his side, unless he possessed some power of speech to unfield his case to the Dicests, as nell as to confute the falseboots and discutangle the sophistry of an opponent. To most such linbilities, from which no citizen, rich or poor, was exempt, a certain training in speech became not less essential than a certain training in arras." Thus was it that even quibbling ingentity, "making the worse appear the better reason," because a sort of virtue, became it was obtained only by that unsatery over argument which was the Athenian's ambition and accessity. We can send a paid advocate to quibble for us, and do not therefore need such argumentative subtlety. But let us ask, are barristers pronounced the 'exeruptors of minkind," and is their art called the art of " making the worse appear the better reason," as if that, and that alone, were the purport of all piculing? Yet, in defending a criminal, does not every barrieter exert his energy, eloquence, subtlesy, and knowledge 'to make the worse appear the better reason'? Do we reprobate Seegeant Talliand or Sir Frederick Thesiger, if they sucred in gaining their client's cause, although that cause be a bed me? On the centrary, the ledones of the canse makes the greatness of the triamph.

Nour let us suppose Sergeant Talfound to give lessons in forensie orstory; suppose him to unnounce to the world, that for a ceruin sum he would instruct any man in the whole art of exposition and debate, of the interrogation of witnesses, of the tricks and turningpoints of the her, so that the learner might become his own aimsenter this would be contrary to legal etimetter; but would it be inmond? Grave men might, perhaps, object that Mr. Tallened was offering to make men chests and scamps, by enabling them to make the worse appear the letter reason. But this is a consequence forseen by grave men, not acknowledged by the teacher. It is doubtless true that owing to ordiney, ingenuity, and subtlety, a scamp's cause is sometimes gamed; but it is also true that many an house! man's cause is gained, and many a scamp frustrated, by the same means. If foresiste omtory does sometimes make the wome appear the better reason, it also makes the good appear in all its strength. The former is a necessary evil, the latter is the very object of a court of justice. 'H,' says Callieles, in defence of Gorgius, to Socrates, " any one should charge you with some crime which you had not committed, and carry you off to prison, you would gape and stary, and would not know what to say; and, when brought to trial, however

^{*} Grete, vin. 103-k.

contemptible and weak your accuser might be, if he chose to indict you expitally, you would perish. Can this be wisdom, which, if it takes hold of a gifted turn, distroys the excellence of his nature, avadering him incapable of preserving himself and others from the greatest dangers, enabling his exemies to plursler him of all his property, and reducing him to the situation of those who, by a sentence of the Court, have been deprived of all their rights?

If it be admitted that Sergeant Talfourd's instruction in forensic oretory would not be immoral, however unusual, we have only to extend the sphere and include politics, and represent to surselves the democratic state of Athens, where demagogues were ever on the alert, and we shall be fully persuaded that the art of the Sophists was not considered immoral; and, as further proof, to select the passage in Plato's Republic, as coming from an unexceptionalite source.

Socrates, speaking of the nurremary teachers whom the people call Sophists, says :—'These Sophists teach them only the things testical the people themselves proper in assemblies: yet this they call wisdom. It is as if a man had observed the instincts and appetites of a great and powerful beast, in what manner to approach it, how or why it is ferocious or calm, what cries it makes, what tones appease and what tones irritate it; after having learnt all this, and calling it wisdom, commenced teaching it without any knowledge of what is good, just, shameful and unjust among these instincts and appetites; but calling that good which flatters the animal, and that had which irritates it; because he knows not the difference between what is good in itself and that which is only relatively good.'

There is the usual vein of cariculture in this description (which is paraphrased in the Quarterly Review,) and there given as if the undoubted and unexaggeosted doctrines of the Sophists), but it very distinctly sets forth the fact that the Sophists did not teach anything contrary to public morels, however their art may have offended abstract morality. Indeed the very fact of their popularity would prove that they did but respond to a public want; and because they responded to this most they were paid by the public in money. Plato constantly harps upon their being more energies; but he was wealthy, and could afford such sarcasms. The Greeks paid their Musicians, Painters, Sculptors, Physicians, Poets, and Teachers in Schools; why therefore should they not pay their Philioophers?

Zeno of Elea was poid; so was Democrates; but both of these has been sometimes included arought the Sophists. We are nothing whatever more devogatory in the acceptance of money by Philosophers than by Poets; and we know how the latter scipulated for handsome payment.

Having done our best to show that the 'Sophistical art'—that alone which the Sophists had in common—was not immoral, or at any rate was not regarded as inneonal by the Greeks, we will now see how the case stands with respect to the old accusation of their knowing corrupted the Athenian youth, and of their dectrines being

essentially compting.

That the Athenians did not consider the Sophists as corruptors of youth is inequivocally shown in two faces: they did not impose the Sophists, and they did impeach Socrates. When Anasagoras and Protagoras 'sapped the foundations of merality' by expressing opinious contrary to the religion of Athens, they were banished; but who impeached Gorgius, or Hippins, or Prodicts?

The art however may have been essentially corrupting, although to contemporaries it did not appear so. We believe it was so, if it is to be made responsible for all the consequences' are unjust standards. Men are not responsible for what others may consider their electrics "leaf to." It was on the ground of such remote deduction that Sorrates was put to death; and on such ground the Sophists have been the bycorord of reground. Mr. Grote grapples directly with the fact where he declares Athens at the close of the Pelepourssian war was not more corrupt than Athens in the days of Militades and Aristides; and had it been more corrupt, we should decad quite other evidence than that usually alleged, before believing the corruption due to the Sophists.

Why then did Pinto speak of the Sophists with so much asperity? Why did he consider their teaching so dangerous? Become he differed from them is roto. He lated them for the same reason that Calvin hand Serretus; but having a more generous nature than Calvin, his latted of their doctrines did not assume so disgraceful a form. If his allegations are to condemn the Sophists, they must equally conform all the public men of that day. Wheever will read either the Gargios or the Republic, will see in how sweeping and indiscriminate a manner he passes the sentences of conformation. Not only the Sophists and all the Rhetors, but all the Massicians and either Dithyraushic or Trager Poets, all the Statemen

past as well as present, not excepting even the great Pericles, receive from his hand one common stamp of dishonour.'* But so far is he from considering the Sophists as peculiar corruptors of Athenian morality ' that In distinctly present against that supposition in a remarkable passage of the Republic. It is, he says, the whole people or the society, with its established morality, intelligence, and tone of sentiment, which is intrinsically vicious; the teachers of such a society must be vicious also, otherwise their teaching would not be received; and even if their private teaching were ever so good, its effect would be washed away, except in some few privileged natures, by overwhelming influences.'

The truth is that, incefor as the Sophists taught any doctrine at all, their doctrine was ethical; and to suppose men teaching immeral ethics, i.e. systems of morality known by them to be immoral, is abourd. To clear up this point we must endeavour to ascertain what that doctrine was.

Plato's account is on the face of it a caricature, since it is impossible that any man should have seriously entertained such a doctrine. What Protogoras and Gorgins thought is not given, but only a missenresentation of what they thought. Plato seizes hold of one of their doctrines, and, interpreting it in his own way, makes it lead to the most outrageous absurdity and immorality, This is as if Berkeley's doctrine had been transmitted to us by Beattie. Berkeley, it is well known, denied the existence of the external world, resolving it into a simple world of ideas. Beattie tounted him with not having followed out his principles, and with not having walked over a precipice. This was a gross misrepresentation: an igascratio eleseki: Beattle misunderstood the argument, and drew conclusions from his misunderstanding. Now, suppose him to have written a dislogue on the plan of those of Plato: suppose him making Berkeley expound his argument in the way he (Braitie) interpreted it, with a tlavour of exaggeration for the sake of effect, and of absurdity for the sake of easy refutation; how would be have made Berkeley speak 5 Somewhat thus ;- 'Yes, I maintain that there is no such external existence as that which men vulgarly believe in. There is no world of matter, but only a world

^{*} Grote, vid. 537.

⁺ Did., p. to. The passage referred to is Repub, vi. 602 (page 388, ed. Bekker), and the Sophiste are mentioned by name as the trackers of whom it treats.

of ideas. If I were to walk over a precipier, I should receive no

injury; it is only an ideal precipies."

This is the interpretation of a Beattle; how true it is most senknow: it is, however, quite as true as Plato's interpretation of the Sophists. From Berkeley's works we can convict Beattle. Plato we can convict from experience of human nature: experience tells us that no man, for loss any set of men, could arrivally, publicly, and constantly broach doctrines thought to be subversive of all morality, without incurring the heaviest proalties. To broach immeral doctrines with the faintest prospect of success, a man must do so in the name of rigid Morality. To teach immerality, and openly to arous that it is summeral, was, according to Plato, the office of the Sophists;" a statement which carries with it its own contradiction.

§ II. PROTECORAS.

Nothing can be more erroneous than to isolate the Soplists from previous teachers, as if they were no direct product of the speculative efforts which preceded them. They illustrate the crisis at which philosophy had arrival. They took the acquative, as Sorrates took the positive issue out of the dilemma.

Protagoras, the first who is said to have account himself a Sophist, was been at Abstern, where Democritus first noticed him as a porter, who showed great address in inventing the knot.† The onsequence was that Democritus gave him instructions in Philosophy. The story is appercipall, but indicates a connection to have existed between the speculations of the two thinkers. Let us suppose Protagoras to have accepted the doctrine of Democritus; with him to have rejected the matry of the Electrics and to have maintained the existence of the Many. With this he also learned that thought is sensation, and that all knowledge is therefore phenomenal. There were two theories in the Democritesa system which he could not accept, vir. the Atomic and Reflective. These two imply each other. Reflection is necessary for the idea of Atoms; and it is from the

This passage in the Pentagorou is often referred to as a proof of the shareshousess of the Sophists, and exactines of the Bi-favour with which they come regarded. It is to us only a percof of Plate's tendency to retrain.

[†] What the precise signification of ribes is we are smalle to say. A partie's knot, such as is not used, is the common interpretation. Perhaps Protogorus had contribed a sort of wooden suchian such as the glatters us, and which is used by the persons in Greece and Italy to this day.

idea of Atoms not perceived by the sense, that the existence of Reflection is proved. Protagonas rejected the Atoms, and could therefore reject Reflection. He said that Thought was Sensation, and all knowledge consequently individual.

Did not the place of his birth no less than the traditional story lead one to suppose some connection with Democritus, we might feel authorized to adopt certain expressions of Plato, and consider Protagoras to have derived his electrine from Heraclitus. He certainly resembles the last-named in the main results to which his speculations led him. Be that as it may, the fact is unquestionable, that he maintained the doctrine of Thought being identical with and limited by Sensation. Now, this doctrine implies that everything is true relatively—every sensation to a true sensation; and, as there is nothing but sensation, knowledge is inevitably fleeting and imperfect. In a melancholy mind, as in that of Heraclitus, such a doctrine would deepen sudness, till it produced despire. In minds of greater clusticity, in men of greater confidence, such a doctrine would lead to an occupetic scepticism. In Protagoras it became the formula: "Man is the measure of all things."

Sextus Empirious gives the psychological doctrine of Protagous very explicitly; and his account may be received without suspicion. We translate a portion of it:—

'Mutter, says Promgorns, is in a perpetual flux;" whilst it undergoes augmentations and issues, the senses also are modified, according to the age and disposition of the body. He said, also, that the reasons of all phenomena (appearance) resided in matter as anistrate (rob; λόγους wairrow röw фанцийнае immediate is τξ EAg); so that matter, in itself, might be whatever it appeared to each. But men have different perceptions at different times, according to the changes in the thing perceived. Whoever is in a healthy state perceives things such as they appear to all others in a healthy state, and rice serial. A similar course holds with respect to different ages, as well as in sheeping and waking. Man is therefore the criterion of that which exists; all that is perceived by him exists, that which is perceived by no man does not exist.'?

Now, conceive men conducted by what they thought invanishing arguments to such a doctrine as the above, and then see how natu-

^{*} The ther journe show, an expression which, if not become of by Searna from Plate, would confirm the conjecture above respecting Hernellian, as the source of Protogram's system.

⁺ Hamit Parrier, p. 44.

rally all the scepticism of the Soubists flows from it. The difference between the Sophists and the Sceptics was this; they were both convinced of the insufficiency of all knowledge, but the Sception contented themselves with the secretarion, while the Sophists, witisfied with the vanity of all endeavous to penetrate the mysteries of the universe, began to consider their relations to other men: they devoted themselves to politics and rhetorie." If there was so possibility of Truth, there only remained the possibility of Personsian, If our opinion was us true as another,-that is, if neither were true,-it was nevertheless desirable, for the sake of Society, that certain opinious should prevail; and, if Logic was powerless, Rhstoric was efficient. Hence Protagoras is made to say, by Plata, that the wise man is the physician of the souls be carnot indeed induce truer thoughts into the mind, since all thoughts are equally true; but he can induce healthier and more profitable thoughts. He can in the same way heal Society, since by the power of orders he can introduce good useful sentiments in the place of those bure and hurtful.y

This doctrine may be false; but is it not a natural consequence of the philosophy of the epoch? It may be immoral; but is it necessarily the hold and shameless immorality attributed to the Sophists? To us it appears to be peither more nor less than the result of a sense of the radical insufficiency of knowledge. Protagoras had spent his youth in the study of philosophy; he had found that study vain and idle; he had atterly rejected it, and had turned his attention elsewhere. A man of practical tendencies, he mated a practical result. Failing in this, he sought another path, fruly impressed with the necessity of having something more definite wherewith to enter the world of action. Plato could see no nobler end in life than that of contemplating Being,-than that of funliarning the mind with the eternal Good, the Jint, and the Brastiful,-of which all goodness, justice, and beautiful things, venthe images. With such a view of life it was intural that he should despise the acepticism of the Soukists. This accepticism is cloub set forth in the following passage from the sperch of Callicles, in Plato's Gorgins :-

*Philosophy is a graceful thing when it is moderately cultirated in youth; but, if any one occupies himself with it beyond the proper

† Themleton, yr. 238.

^{*} See Plate's definition of the segmentical art. Knobleta, p. 145.

age, it rains him; for, however great may be his natural especity, if he philosophizes too long he must of necessity he inexperienced in all those things which one who would be great and eminent must be experienced in. He must be unsequinted with the laws of his country, and with the mode of influencing other men in the intercourse of life, whether private or public, and with the pleasures and passions of men; in short, with human characters and manners. And when such men are rolled upon to act, whether on a private or public occasion, they expose themselves to ridicule, just as politicians do when they come to your conversation, and attempt to cope with you in argument; for every man, as Emigides says, occupies himself with that in which he hads himself superior; that in which he is inferior be usuals, and speaks ill of it, but praises what he excels in thinking that in doing so he is proising binsself. The best thing, in my opinion, is to partake of both. It is good to partake of philosophy by way of education, and it is not ungraceful in a young men to philosophize. But, if he continues to do so when he grows older, he becomes ridiculous, and I feel towards him as I should towards a grown person who lisped and played at childish plays. When I see m old man still continuing to philosophize, I think he descrees to be flogged. However great his untural talents, he is under the necessity of asciding the morably and public places, where, as the poet says, men become eminers, and to lide himself, and to pass his life whispering to two or three striplings in a corner, but never speaking out mything great, and bold, and liberal."

That Protagoras, no less than Prodicus," was a teacher of excellent morality, if not of the highest abstract cirus of the Good, is clearly made out not only in Mr. Groto's work, but in that of Zeller, where the Sephists are unfavourably treated on the whole,† and is indeed supported by the testimony of Plato and Xesophou. The ethics of the Sophists may not have been of a very lofty kind, but they were considered even by enemies, to be adapted to the exigencies of the day. They doubted the possibility of Philosophy;

Predicts is specially excepted by Aristoplanes in his everying condennation of the Sophista; and indeed the author of the well-known purable, The Choice of Herendia, must communitate respect even of antagonists

⁴ Sec Philis, she Griceles, a 775. In case of his sates, Zeller albades to Steinlast's doubt respecting the authorship of the Myth, attributed by Plate to Pertagone, as being 'quite scottly of Plate hissands'. Whit is very characteristic of the ordinary time of communications, and we may well sak with Zeller. Alors warms colder the Projuguess on get seen at

they were assured only of the advantage of Oratory. In their visits to various either they could not full to remark the variety of laws and onlinances in the different States. This variety impressed them with a conviction that there were no such things as Right and Wrong by nature, but only by convention. This, therefore, became a fundamental precent with them. It was but a corollary of their dogma respecting Truth. For man there was no Eternal Right because there was no Ebernal Truth ; vo disease out to organic at differe althis some law was but the law of each city. That which appears just and honourable to each city, is so for that city, as long as the opinion is entertained, says Protogoras in the Theoletus (p. 229). This denial of abstract Troth and abstract Justice is easily pushed to absurd and immoral consequences; but we have no evidence that such consequences were maintained by the Soylista. Plato often judges them by such consequences; but independently of the want of any confidence in his representations as faithful, we run often detect in Plato himself evidences of the exaggeration of his general statements. Thus, he on various occasions makes the Sophists maintain that Might is Right. Molerus, who always arrept him as positive testimony, have therefore unanimously repeated this statement. Yet, it is obvious that they could not have held this opinion except in a very qualified form. And, in the first Book of the Republic, Thrasymachus the Sophist is made to explain his meaning; namely, that Justice is the law ordained by the party which is strongest in the State. Thus, in a democracy the exactments of the people are the laws; these laws are for their advantage; therefore just. Now, in this admission, by Plato, of a qualification of the abstract formula, 'Might is Right,' we see evidence of that founds never having been promulgated by the Sophists; it was only an interpretation by Plato. What they meant was this: All law is but convention; the convention of each State is therefore just for it; and, insermels us my such convention must necessarily he ordained by the strongest juriy, i. s. must be the will of the many, so we may see that justice is but the advantage of the strongoost.

The foregoing will, we trust, suffice to show that the tearls abtributed to them by Plato, are often carinatures, and admit of verdifferent explanation. Well might Gorgias exclaim, on realing the Discognic which bears his name, "I did not recognize myself. The young man, however, has great talent for source."

The Sophists were the natural production of the opinious of the

epoch. In them we see the first energetic protest against the possihility of metaphysical science. This protest however must not be conformled with the protest of Baccar must not be mistakes for the germ of positive philosophy. It was the protest of buffed misds. The Philosophy of the day led to scepticism; but with Scepticism vo energetic must could remain contented. Philosophy was therefore denounced, not because a surer, safer path of negative had been discovered, but because Philosophy was found to lead newhither. The scepticism of the Sophists was a scepticism, with which no great speculative intellect could be contented. Accordingly with Socratis Philosophy again re-asserted her empire.

FOURTH EPOCH.

A NEW ERA OPENED BY THE INVENTION OF A NEW METHOD.

CHAPTER 1, SOCRATES.

& L THE LEFT OF SCRATES.

WHILST the brilliant Sophists were reaping money and renown by protesting against Philosophy, and teaching the wood-jugalery which they called Disputation and Orstory, there suddenly aspeared amongst them a strange antagenist. He was a perfect contrast to them. They had slighted Truth ; they had denied her. He had made her his soul's mistress; and, with patient labour, with untiring energy, did his large wise soul tell after perfect communion with her. They had deserted Truth for Money and Renown. He had remained constant to her in poverty. They professed to teach everything. He only knew that he knew nothing: and denied that anything could be taught. Yet he believed he could be of service to his fellow-men; not by teaching, but by helping them to learn. His mission was to examine the thoughts of others. This he humorously explained by reference to his mother's profession, muncly that of a midwife. What she did for wrenen in labour he could do for men pregnant with ideas. He was an accoudant of ideas. He assisted ideas in their birth, and, having brought them into light, he examined there, to see if they were fit to live; if true, they were welcomed; if false, destroyed. And for this assistance be demanded no permissry recompense, but steadfastly refused every bribe of the kind.

He was the declared questioner of all men who were renowned for wisdom, or any intellectual eminency; and they were somewhat puzzled with their new antagonist. Who is he?—Sorrates, the sm of Sophroniscus. What does he?—Converse. For what purpose? —To capose error.

Some gorgeons Sophists, in their flowing robes, followed by

crowds of enger listeness, treated the poor and humbly-clad Socrates with ineffable contempt. He was rude and ungainly in his movements; unlike all respectable citizens in his habits. Barefoot, he wandered about the streets of Athens absorbed in thought; sometimes he stood still for hours, fixed in meditation. Every day he strolled into the market-place, and disputed with all who were willing. In appearance he resembled a Silenus. His flattened nose, with wide and upturned nostrils, his projecting cychalls, his thick and sensual hips, his squab figure and unwirldy belly, were all points upon which ridicule might fastes. Yet when this Silenus spoke there was a witchery in his tongue which fiscinated those whom his appearance had disgusted; and Alcibiades declared that he was forced to stop his cars and flee away, that he might not sit down beside Socrates and 'grow old in listening to his talk.' Let us hear Alcibiades describe him.*

I will begin the praise of Socrates by comparing him to a certain statue. Perhaps he will think that this statue is introduced for the sake of ridicule; but I assure you that it is necessary for the illusfration of truth. I assert, then, that Soemies is exactly like those Silenasos that sit in the sculptors' shops, and which are carred holding flates or pipes, but which, when divided in two, are found to contain withinside the images of the gods. I assert that Socrates is like the Satyr Marsyas; that your form and appearance are like these Satyrs, I think that even you will not venture to deny; and how like you are to them in all other things, now hear. Are you not scornful and petulant? If you deny this, I will bring witnesses. Are you not a piper, and far more wonderful a one than he? for Marsyas, and whoever now pipes the music that he taught, that music which is of heaven, and described as being taught by Manyas, enchants men through the power of the mouth; for, if any musician, he he skilful or not, awakens this music, it alone enables him to retain the minds of men, and from the divinity of its nature makes exident those who are in want of the Gods and initiation. You defer only from Marsyas in this circumstance, that you effect withrest instruments, by more words, all that he can do; for, when we hear Pericles, or may other accomplished orator, deliver a discourse, no our, as it were, cares anything about it. But when any one hearsyou, or even your words related by another, though ever so rude and makilful a speaker, he that person a woman, man, or child, we are

^{*} Plant, Spapelition. Shelley's framilition.

struck and retained, as it were, by the discourse clinging to car minds.

' If I was not afraid that I am a great deal too drunk, I would confirm to you by an oath the strange effects which I assure you I have suffered from his words, and suffer still; for, when I hear him speak, my heart leaps up far more than the bearts of those who celebrate the Corybantic Mysteries; my tears are poured out as he talks-a thing I have such laugen to many others beside nearly. I have heard Perioles and other excellent orators, and have here pleased with their discourses, but I suffered nothing of this kind; nor was my soul over on those recasions disturbed and filled with self-reproach, as if it were slaviable laid prostrate. But this Manual here has often affected me in the way I describe, until the life which I lead seemed hardly worth living. Do not deny it, Secretes, for I well know that if even now I chose to listen to you, I could not resist, but should again suffer the same effects; for, my friends, he forces for to confess, that while I myself am still in want of many things, I neglect my own necessities, and attend to these of the Athenius. I stop my ears, therefore, as from the Sircus, and for away as fast as possible, that I may not sit down beside him and grow old in listening to his talk; for this man has reduced me to feel the sentiment of chame, which I imagine no one would readly believe was in me; he alone impires me with remorse and ave; for I feel in his presence my incapacity of refuting what he says, or of refusing to do that which he directs; but, when I depart from him, the glory which the multitude confers overwhelms mu. I escape, therefore, and hide myself from him, and when I see him I am overwhelmed with humiliation, because I have reglected to do what I have confessed to him ought to be done; and often and often live I wished that he were no longer to be seen manne men. But, if that were to happen, I well know that I should suffer for greater pain; so that where I can turn, or what I can do with this man, I know not. All this have I and many others suffered from the pipings of this Satyr.

'And observe how like he is to what I mid, and what a vonderful power he possesses. I know that there is not one of you who is aware of the real nature of Socrates; but since I have burn, I will make him plain to you. You observe how passionately Socrates affects the intimacy of those who are beautiful, and how ignored he professes himself to be; appearances in themselves excessively Silence. This, my friends, is the external form with which, libt one of the aculptured Silem, he has clothed himself; for, if you open him, you will find within admirable temperance and sisdom; for he cares not for more beauty, but despises more than any one can imagine all external peacentons, whether it be beauty, or wealth, or glury, or any other thing for which the multitude felicitates the possessor. He esteems these things, and us who homour them, as authing, and lives among men, making all the objects of their admiration the playthings of his irony. But I know not if any one of you have ever usen the divine images which are within, when he has been opened and is serious. I have seen them, and they are so supremely beautiful, so golden, so divine and wonderful, that everything which Socrates commands sundy ought to be obeyed, even like the voice of a God.

'Many other and most wooderful qualities might well be praised in Secretes, but such as these might singly be attributed to others. But that which is unparalleled in Socrates, is, that he is unlike, and shove comparison with, all other men, whether those who have lived in ancient times, or those who exist now; for, it may be conjectured, that Brasidis and many others are such as was Achilles. Perioles deserves comparison with Nesdor and Autonor; and other excellent persons of various times may, with probability, be drawn into comparison with each other. But to such a singular men as this, both hunself and his discourses are so mecaninus no one, should be seek, would find a parallel among the present or the past generations of mankind, unless they should say that he resembled those with whom I lately compared him; for, assuredly, he and his fiscourses are like nothing but the Sileni and the Satyrs. At first I forgot to make you observe how like his discourses are to those Satyes when they are opened; for, if any one will listen to the talk of Socrates, it will appear to him at first extremely ridiculous; the phrases and expressions which he employs fold around his exterior the skin, as it were, of a rule and wanton Sutyr. He is always talking about beau-founders, and leather-entiers, and skin-dressers; and this is his perpetual custom, so that may dull and smobservant person might easily laugh at his discourse. But, if any one should see it opened, as it were, and get within the sense of his words, he would then find that they alone of all that enters into the mind of man to utter, had a profound and personsive meaning, and that thry were most divine; and that they presented to the mind innumerable images of every excellence, and that they tended towards objects of the highest moment, or rather towards all that he who seeks the possession of what is supremely beautiful and good med regard as assential to the accomplishment of his arabition.

These are the things, my friends, for which I perise Socrates."

This Silenns was the most formidable antagonist that the Sophists had encountered; but this is small praise for him who was hereafter to become one of the most reverenced names in the world's Pantheon,—who was to give a new impulse to the bosons mind, and leave, as an inheritance to mankind, the grand example of an heroic life devoted to Troth and crowned with marryulous.

Everything about Socrates is remarkable,—personal appearance, moral physiognomy, position, object, method, life and death. Porturately, his character and his tradencies have been so clearly pictured in the works of Plato and Xenophon, that although the partrait may be flattered we are sure of its resemblance.

He was born n.c. 160, the son of Sophroniseus, a scalptor," and Phaencrete, a midwife. His parents, though poor, managed, it is said, to give him the ordinary education. Besides which, he learned his father's art; whether he made any progress in it we are unable to say; probably not, as he reliaquished it early. A group of Graces, which tradition attributed to the chirel of Socrates, was exhibited for conturies among the art treasures of the Acropolis; but we have of course no means of determining the authenticity of the relic. Diogenes Lacrtins tells us that Crito, a wealthy Athenian, charmed with the manners of Socrates, is said to lase withdrawn him from the shop, and to have educated him. This Crito afterwards because a reverential disciple of the great genins he had discovered.

Considering that we have his own assertion as evidence of his having early studied Physics, for which he had an astonishing longing, and considering further that he so entirely relinquished that study, even declaring it to be impices,† it is of lattle importance to discuss, with German critics, whether he did or did not learn from Archeleus and Anaxagoras. That he learned centery from Prodicus;* is not discountenanced by the passage in Xenophon,§ where he is made to say, 'You despise me because you have squandered

^{*} Dr. Wuggers says, that Times the Sillograph calls Socrates, with a seesthologies, 'a stone-semper.' He forgots that asfulsion was one of the matrix for a sculpter, as Lexino informs as in the account of his early life.

[†] In Xenopirea, madaras, .- Monuras, lib. s. c. L.

I Patis Mess, p 90.

[&]amp; Churretan, 1.5.

money upon Protagoras, Gorgias, Prodiens, and so many others, in return for their teaching; whereas I am forced to draw my philosophy from my own brain; for certainly, if any one can claim originality, it is Socrates: his philosophy he learned from no one. He struck into a new path. Instead of trying to account for the existence of the universe, he was ever crasing, as Mr. Maurice well says, for a light to show him his own path through it.

He slid not commence teaching till about the mishile of his career. We have but few records of the events which filled up the period between his first bearing his father and his first teaching. One of these was his marriage with Xanthippe, and the domestic squabbles which control. She have him three children. The violence of her temper and the equationity with which he submitted to it are provedial. She has become a type; her name is synonymous with Shrew. He gave a playful explanation of his choice by conserving, that 'those who wish to become skilled in horsemanship select the most spirited horses; after being able to bridle those, they believe they can bridle all others. Now, as it is my wish to live and converse with men, I married this woman, being firmly convinced that in case I abould be able to endure her, I should be able to endure all others.'

Before he gave himself up to teaching, he performed military service in three battles, and distinguished himself in each. In the tirst, the prine of bravery was awarded to him. He relimptished his claim in favour of Alcihiades, whom it might encourage to deserve such honour. Various anecdotes are related of him during his campaigns. In spite of the severity of winter, when the ice and snow were thick upon the ground, he want barefoot and lightly clad. On our occasion he stood before the camp for four-and-twenty hours on the same spot wrapt in mediantion. Plate has given us a heautiful description of Socrates during the campaign, which we quote in the translation by Shelley:—

"At one time we were fellow-soldiers, and had our mess together in the camp before Potidies. Socrates, there overcame not only me, but every one besides, in endurance of toils; when, as happens in a comparign, we seek reduced to few provisions, there were none who could sustain honger like Socrates; and, when we had plenty, he alone seemed to enjoy our military fare. He never

^{*} Mastice, Moral and Metophysical Philosophy, i. 111.

⁴ Xemplon, Continue, in

drank much willingly; but, when he was compelled he conquered all even in that to which he was least accustomed, and, what is most autonishing, no person ever saw Sociatos drunk either then or at any other time. In the depth of minter (and the winters there are excessively rigid) he sustained calmly incredible hardships; and, amongst other things, whilst the first was intolerably severe, and no one went out of their tents, or, if they went out, wrapt themselves up carefully and put flexees under their fact, and bound their legs with havry skins. Sociates went out only with the same clock on that he usually were, and walked barrioot upon the ice, more easily indeed than those who had samitabled themselves so delicately; so that the soldiers thought that he did it to mock their want of fortitude. It would indeed be worth while to commens-rate all that this heave man did and endored in that expedition.

"In one instance he was seen early in the morning standing in one place wrapt in meditation, and, as he seemed not to be take to unrawed the subject of his throughts, he still continued to stand as impairing and discussing within himself; and, when noon came, the soldiers observed him, and said to one another, "Socrates has been standing there thinking, ever since the morning." At last user lonions came to the spot, and, having supped, as it was summer, beinging their bimbets, they by down to sleep in the cool: they observed that Socrates continued to stand there the whole night until morning, and that, when the sun rooe, he saluted it with a prayer, and departed.

I ought not to omit what Socrates is in battle; for, in that battle after which the Generals decreed to me the price of ourage, Socrates alone of all men was the saviour of my life, standing by me when I had fallen and was wounded, and preserving both myself and my areas from the hands of the enemy. On that occasion I entreated the Generals to decree the prize, as it was most due, to him. And this, O Socrates, you cannot deny, that when the Generals, wishing to conciliate a person of my rank, desired to give me the price, you were far more entreatly desireds than the Generals, that this glory should be attributed, not to yourself, but me

"But to see Socrates when our army was defeated and scattered in flight at Delium, was a spectacle worthy to behold. On that consion I was among the easilry, and he on fact, heavily armed. After the total root of our troops, he and Laches retreated together: I came up by chance, and, seeing them, bade them be of good close, for that I would not lowe them. As I was on horseback, and therefore less occupied by a regard of my own situation, I could better observe, then at Potidica, the beautiful spectacle exhibited by So-crates on this emergency. How superior was he to Luches in presence of mind and courage! Your representation of him on the stage, O Aristophanes, was not wholly unlike his real self on this occasion; for he walked and started his regards around with a majestic composure, looking tranquilly both on his friends and enemies; so that it was evident to every our, even from afar, that whoever should venture to attack him would encounter a desperate resistance. He and his companion thus departed in safety; for those who are scattered in flight are pursued and killed, whilst men hesitate to touch those who exhibit such a countenance as that of Socrates even in defeat."

We must east a glause at his public coreer. His doctrine being Ethical, there is great importance in seeing how far it was practical. He prachimed the supremacy of Virtue over all other rules of his; he exherted men to a brave and unflinching adhesion to Justice, as the only real happiness; he declared that the unjust alone are unhappy. Was be lumself varroom? was he happy? The question is pertinent; fortunately it can be answered.

He had that high moral coarage which can brave not only death, but opinion. He presents as example, almost unique in history, of a man who could defy a tyrant, and also defy a tyrantical mob, an impetuous, imperious mob. The Thirty Tyrants on one occasion animoscal him, together with four others, to the Tholus, the place in which the Prytanes took their meals. He was there communded to bring Leon of Salamis to Athens. Leon had obtained the right of Athenian entirenship, but, fearing the rapacity of the tyrants, had retired to Salamis. To bring lack Leon, Socrates stradily refused. He says himself, that the 'Government, although it was so powerful, did not higher one into doing anything mijest; but, when we came out of the Tholus, the four went to Salamis and took Leon, but I went away home. And perhaps I should have suffered death on amount of this, if the Government had not soon been broken up."

On another occasion he braved the clamorous mob. He was then a Senator, the only State office he ever held. The Athenian Senate consisted of the Five Hundred who were elected from the ten tribes. During a period of therty-five or thirty-six days the members of each tribe in turn had the presidency, and were called Psytones. Of the fifty Psytones, ten had the presidency every seven days;

each day one of these ten enjoyed the highest dignity, with the name of Epistates. He had everything before the assembly of the people, put the question to the vote, examined the votes, and, in shert, conducted the whole business of the assembly. He enjoyed this power, however, only for a single day; for that day he was entrusted with the keys of the citabel and the treasury of the republic.

Secretes was Epistates on the day when the unjust sentence was to be passed on the Admirals who had neglected to have the deal after the battle of Arginese. To take care of the burial of the field was a sucred duty." The shades of the unburied were believed to wander restlessly for a hundred years on the banks of the Styr. After the battle of Arginuse, a violent storm arose, which prevented the Admirals from obtaining the hodics of the slain. In order to remedy this, they left behind them some inferior officers (Taxiarchs) to attend to the office. But the violence of the storn rendered it impossible. The Admirals were tried. They produced the evidence of pilots to show that the tempest had readered the burial impracticable; besides which they had left the Taxinchs behind, so that the blame, if any, ought to fall on the latter. This produced its natural effect on the people, who would instantly have given an acquittal, if put to the rote. But the accusers remaged to adjourn the assembly, pretending that it was too dark to count the slow of Innals. In the meanwhile the mentics of the Admirals did all they could to inflame the minds of the people. The lamenfatious and mounful appearance of the kinsmen of the slain, who had been hired for the tragic scene, had a powerful influence on the assembly. The votes were to be given on the general gunden, whether the Admirals last done wrong in not taking up the body of the dead; and, if they should be condemned by the majority (so the Senate ordained), they were to be put to death and their property confiscated. But to condenn all by one yote was contrary to law. The Prytanes, with Socrates at their head, refused to put the illegal question to the vote. The people became fution, and loadly demanded that those who resisted their pleasure, should themselves be brought to trial. The Prytanes wavered, yielded. Socrates alone remained firm, defying the threats of the mob. Ur. stood there to administer justice. He would not administer injustice. In econoquence of his refund, the question could not be put to the vote, and the assembly was again adjourned. The next

^{*} The Astrono of Suphories is founded on the stereiness of this daily.

day a new Epistates and other presidents succeeded, and the Admirals were condemned.*

It was impossible for Socrates to enter the market-place without at once becoming an object of attention. His ungainly figure, his moral character, and his bewitching tongue, excited and enchained enriosity. He became known to every citizen. Who had not listened to him? Who had not enjoyed his inimitable fromy? Who had not seen him demolish the arrogance and pretension of some reputed wise man? Socrates must have been a terrible antagonist to all people who believed that they were wise because they could discourse formily; and these were not few. He always declared that he knew nothing. When a man professed knowledge on any point, repecially if admiring crowds gave testimony to that profession, Soemles was sum to step up to him, and, profeering ignorance, cutreat to be taught. Charmed with so hamble a listener, the teacher began. Interrogated, he unsuspectingly assented to some very evident proposition; a convlusion from that, almost as evident, next received his assent; from that moment he was lost. With great power of logic, with much ingenious subtlety, and sometimes with during soulistication, a web was formed from which he could not extriente himself. His own admissions were proved to lead to measteres conclusions; these conclusions he repugned, but could not see where the gist of his error lay. The laughter of all bystanders bespoke his defeat. Before him was his adversary, imperturbably calm, apparently innocent of all attempt at making him ridiculous. Confused, but not confuted, he left the spot indignant with himself, but more indignant with the subtlety. of his adversary.

It was thus that Socrates became mistaken for a Sophist; but he was distinguished from the Sophists by his constant object. Whilst they denied the possibility of truth, he only sought to make truth evident, in the ironical, playful, and, sometimes, quibbling manner in which he destroyed the arguments of opponents. Truth was his object, even in his lightest moments.

This sort of disputation daily occurred in Athens; and by it, doubtless, Socrates acquired that notoricty which induced Aristo-phanes to select him as the Sophist hero of the councily of The Closels. No one will doubt that to his adversaries he must have been an exasperating opponent. No one was safe from his attack.

No our who presumed to know anothing exuld escape him. In confirmation, let us quote the account Socrates gives of his procolum, as reported by Plato in the Joology. Secrates there describes his sensations on hearing that Apollo had declared him to be the wisest of men. He could not understand this. Knowing himself to be wise in nothing, yet not daring to think the words of the god cruid he false, he was purified. 'I went to one of those who are esteemed to be wise, thinking that here, if anywhere, I should prove the oracle to be wrong, and to be able to say, "Here is a man wiser than L" After examining this man (I need not name him, but he was one of the politicisms), and conversing with him, it was my equinon that this man seesand to many others, and especially to himself, to be wise, but was not so. Thereupon I tried to convince him that he thought himself wise, but was not. By this means I offended him and many of the bystmalers. When I went away, I said to myself, "I ma wher thru this man; for neither of us, it would seem, knows morthing valuable; but he, not knowing fineses he does know; I, as I really do not know, so I do not tlink I know. I seem, therefore, to be in one small matter wiser than he " After this I west to another still wiser than he, and came to the same result; and by this I affronted him too, and many others. I went on in the same manner, perceiving with sorrow and four that I was making energies; but it seemed necessary to postpose di other considerations to the service of the god, and therefore to seek for the meaning of the sendle by going to all who appeared to know anything. And, O Athenians, the impression scade on me um this: The persons of most reputation seemed to me nearly the most deficient of all; other persons of much smaller account second much more rational.

When I had done with the politicians, I went to the poets, traje, dithyramble, and others, thinking that I should surely find myelf loss knowing than they. Taking up those of their poems which appeared to me must laboured, I usked them (that I might at the same time learn something from them) what these poems mean? I are ashamed, O Athenious, to say the truth, but I must say it; there was scarcely a person present who could not have spoken better concerning their poems than they. I mon found that what pasts do, they accomplish not by wisdom, but by a kind of interal turn, and an enthusiasm like that of prophets and those who after cracks; for these, too, speak many fine things, but do not know one particle of what they speak.

'Lastly, I resorted to artificers; for I was conscious that I myself knew, in a manner, nothing at all, but should find them knowing many valuable things. And in this I was not mistaken; they knew things which I knew not, and were, so far, wiser than I. But they appeared to me to fall into the same error as the poets; each, because he was skilled in his own art, insisted upon being the wisest man in other and greater things; and this mistake of their overshadowed what they possessed of wisdom. From this search, O Athenium, the consequences to me have been, on the one hand, many enunities, and of the most formidable kind, which have brought upon me many false imputations; but, on the other hand, the name and general repute of a wise man.'

Scorates, like Dr. Johnson, did not core for the country. 'Sir,' mid the Doctor, 'when you have seen one given field, you have seen all green fields; Sir, I take to look upon men. Let us walk down Cheapeide.' In words of the same import does Socrates address Phedres, who accosed him of being unsequanted even with the neighbourhood of Athens. 'I am very auxious to learn; and from fields and trees I can learn nothing. I can only learn from men in the city.\(^{\text{f}}\) And he was always to be found where men were assembled.* Ready to argue with every one, he demanded money from some. He gave to lectures the only talked. He wrote no books: he argued t He cannot properly be said to have had a school, since he did not even give a systematic exposition of his doctrine. What has been called his achool, must be understood to refer to the many delighted admirers whose custom it was to serereind him whenever he appeared, to talk with him as often as possible, and to accept his leading opinious,

"At what time Socrates relinquished his profession as a statuary we do not know; but it is certain that all the middle and later part of his life, at least, was decoted exclusively to the self-imposed task of traching; excluding all other husiness, public or private, and to the neglect of all means of focture. We can hardly avoid speaking of him as a teacher, though he himself disclaimed the appellation; his practice was to talk or converse. Early in the morning he fre-

^{*} Xenophon, Mamorat. i. I. Kali Phrys pin de vô rollé, vois 8/ flochspains; Uje deniere.

[†] We are, therefore, disposed to accept as historical, the hisguage Pinto puts into his mouth respecting the inefficiency of books. Books enuset be interpogated, cannot asserer; therefore, cannot tends we can only learn from them that which we know before.—Photosus, p. 96.

quested the public walks, the gynnasia for bodily training, and the schools where rouths were receiving instruction; he was to he seen in the market-place at the liver when it was most crowded, among the booths and tables where goods mean exposed for sale, his whole day was notally spent in this public manner. He talked with any one, young or old, rich or poor, who sought to address him, and in the hearing of all who stood by; not only be never either asked or received my reward, but he made no distinction of persons, never withheld his economistion from any one, and talked on the same general subjects with all. . . . As it was engaging, conous and instructive to hear, certain persons made it their habit to attend bin. in public as companious and listeners. These area, a fluctuating body, were commonly known as his disciples and scholars, though prither he nor his personal friends ever employed the terms toocker and disciple to describe the relation between them. Now no other person in Athens, nor in my other Greenn city, appears ever to have manifested himself in this perpental and indiscriminate manner as a public talker for instruction. By the peculiar mode of life which Socrates pursued, not only his conversation reached the minds of a much wider circle, but he became more abundantly known as a person. While acquiring a few friends and admirers, and raining a certain intellectual interest in others, he at the same time provokal a large number of personal enemies. This was probably the remon why he was selected by Aristophanes and the other comic writers to be attacked as a general representative of philosophical and thetorical tracking."

Although Socrates was a knight errant of philosophy, error on the alert to rescue some foriom truth from the dangeons of prejudice, and therefore was not scrapplous as to who or what his adversary might be, yet his especial onemies were the Sophists. He near neglected an opportunity of refuting them. He combated them with their own weapons, and on their own ground. He knew all their tactics. He knew their strength and their venkness. Take them he had studied Physics, in the speculations of the unity thinkers; and like them had seen that these speculations led to so certainty. But he had not, like them, made sceptions a refuge; in had not prochained Truth to be a Planatom, because he could not embrace her. No: defeated in his endeasour to penetrate the nysteries of the world without, he turned his attention to the wellwithin. For Physics he substituted Morals. The certitude which he failed to gain respecting the operations of nature, had not staken his conviction of the certitude of the moral truths which his conscience presistibly impressed upon his attention. The world of sense might be fleeting and deceptive. The roles of conscience could not deceive. Turning his attention inwards, he discovered certain truths which admitted of no question. They were eternal, immutable, evident. These he opposed to the acepticism of the Sophists. Moral certitude was the rock upon which his shapterecked soil was east. There he could repose in safety. From its brights he could survey the world, and his relation to it.

Thus was his life spent. In his old-age he had to appear before his judges to answer the accusations of Implety and Immorality. He appeared, and was condemned.

When we think upon the character of this great man, whose virtues, business in the distance, and surrounded with the halo of insperishable glory, so impose on our imaginations, that they seem as evident as they were enabled, we cannot hear of his trial and condemnation without indignant disgust at the Athenians. But, for the sake of luminaity, let us be cantious one we decide. The Athenians were exhatile, credulous and cruel; all masses of men are; and they, perhaps, were eminently so. But it is too much to suppose that they, or any people, would have condemned Socrates had he appeared to them what he appears to us. Had a tyrant committed such a deed, the people would have arenged it. But Socrates was not to them what he appears to us. He was offensive to them, and paid the penalty.

A great man rannot be understood by his contemporaries. He can only be understood by his peers; and his peers are few. Posterity exalts a great man's fame by producing a number of great men to appreciate him. The great man is also accessarily a reference in some shape or other. Every reformer has to combat with existing prejudices and deep-rooted possions. To cut his own path, he must displace the rubbish which encumbers it. He is therefore in opposition to his fellow-uses, and attacks their interests. Blinded by prejudice, by passion, and by interest, men rannot see the excellence of him they oppose; and hence it is that, as Heise so admirably says, 'wherever a great soul gives utterance to its thoughts, there also is Golgotha.'

Reformers are martyrs; and Socrates was a reformer. Although, therefore, his confermation appears to us very unjust and very frightful, to the Athenians it was no more than the handment of Empedocles, or the condemnation of Protaporas. Pure as were his intentions, his actions and opinions were offensive. He incurred the hatrid of party-spirit; and by that lasted fell. We recognize the purity of his intentions; he does not oppose or. We can parlen what we believe to be his errors, because those errors wage us war with our interests. Very differently were the Athenians situated To them he was offensive. He lasted injustice and folly of all kinds, and never lost an occasion of exposing them. A man who undertakes to be the critic of his age cannot escape the critic's penalty. Socratos censured freely, spendy. *

But, perhaps, the most exasperating part of his behaviour was the undisguised contempt which he uniformly expressed for the readness with which men assumed they had a capacity for government. Only theware, he said, were fit to govern, and they were few. Government is a science, and a difficult science. It is infinitely more difficult to govern a State than to govern the helm of a skip. Yet, the same people who would not trust themselves in a ship without an experienced pilot, not only trust themselves in a State with an inexperienced ruler, but also endearour to become rulers themselve. This contrapt was sufficient to same his condemnation; but a bester present was wanted, and it was found in his impacty. His defenders, anciest and motions, have declared that he was not guity if impacty; and Xenophon 'wonders' that the charge could have been gredited for an instant. But we believe that the charge was as much merited as in the case of the other philosophers against whom it was male.) He gave now interpretations to the reigning dogmas; and opposing the mythological interpretations, he was chargeable with ampiety.

It has been remarked by an arenymous writer, that, in complying with the rites of his country, Socrates avoided her superstitions. The rite of sacrifice, so simple and natural that it harmonizes with all and any orligious truth, required to be guarded against a great above, and against this he warned his countrymen.

When says Xerophou he sarrificed, he feared not his offence

^{*} The materly account of the trial of Scenter, given by Mr. Owen, should be used and re-count by all intermed in the subject.

[†] Sensor Empiricus, speaking of the Socratic factory, talls it in April (now or dome, the Math. it. p. 62.—Platric dislogues of The Second Historics and the Enthyphen are enables or months of Socrates' apparatus to the Mythology of his day.

would fail of acceptance in that he was poor; but, giving according to his ability, he doubted not but, in the sight of the Gods, he equalled those men whose gifts and sacrifices overspread the whole alter; for Socrates always reckoned upon it as a most indubitable truth, that the service paid the Desty by the pure and pions soul was the most grateful service.

When he prayed, his petition was only this,—that the Gods would give to him those things that were good. And this he did, formmuch as they alone knew what was good for man. But he who should ask for pold or silver, or increase of dominion, noted not, in his opinion, more nisely than one who should pury fee the opportunity to fight, or game, or anything of the like nature; the comequence whereof being altogether doubtful, might turn, for night he knew, not a hitle to his disedvantage."

It was more difficult for the philosopher either innoceatly to comply with, or seriely to oppose, that part of the popular whichs which related to oracles and omens. Socrates appears to have done what was possible, and what therefore was best ultimately, towards correcting this great ceil.

'He likewise asserted, that the science of divination was necessary for all such as would govern successfully, either cities or private families; for, although he thought every one might choose his own way of life, and, afterwards, by his industry, excel therein (whether architecture, mechanics, agriculture, superintending the labourer, managing the funneces, or practising the art of war), yet even here, the Gods, he would say, thought proper to reserve to themselves, in all these things, the knowledge of that part of them which was of the most importance, since he who was the most careful to cultivate his field, could not know, of a certainty, who should coup the freit of it,

"Socrates therefore extremed all those as no other than underen who, excluding the Deity, referred the success of their designs to nothing higher thin human produces. He likewise thought those not much better who had recourse to divination on every occasion, as if a man was to consult the seadle whether he should give the reins of his chariot into the hands of our ignorant or noil versed in the set of driving, or place at the helm of his ship a skilful or unskilful pilot.

"He also thought it a kind of impirity to important the Gods walls our impairies concerning things of which we may gain the know.

ledge by number, weight, or measure; it being, as it seemed to him, incumbent on man to make himself acquainted with whatever the Gods had placed within his power; as for such things as were beyond his comprehension, for these he ought always to apply to the oracle; the Gods being ever ready to communicate knowledge to those whose care had been to render them projetious."

The trial of Socrates belongs rather to the history of Greece than to the history of Philosophy. It was a political trial. His bearing during the whole period was worthy of him; calm, grave, and touching; somewhat haughty perhaps, but with the haughtiness of a brave soul tighting for the truth. It increased the admiration of his admirers, and exasperated his adversaries.

Plato, them a young man, was present at the trial, and has preserved an admirable picture of it in his Apology. The closing speech, made by Socrates, after sentence of death had been prorounced, is supposed to be given with substantial accuracy by Plato. We extract it:—

'It is for the sake of but a short span, O Athenians, that you have incurred the imputation, from those who wish to speak coil of the city, of having put to death Socrates, a wise man (for those who are inclined to reproach you will my that I am wise, even if I am not). Had you waited a short time the thing would have happened without your agency; for you see my years; I am far alvanced in life, and near to death. I address this not to all of you, but to those who have voted for the capital sentence, and this too I say to the same persons,-Perhaps you think that I have been emdemned for want of skill in such modes of working upon your minds, as I might have employed with success, if I had thought it right to employ all means in order to escape from confermation. Far from it: I have been condemned, and not from want of things to us, but from want of during and slamelosmess; because I did not chose to my to you the things which would have been pleasured for you to hear, weeping, and lamenting, and mying and doing other things which I affirm to be unworthy of me; as you are atcustomed to see others do. But neither did I then think fit is to or say morthing moworthy of a freeman; nor do I now repeat of brong thus defended myself. I would far rather have made the one defence and die, than have made the other and love. Neither in a court of yestice, nor in war, sught we to make it our object

^{*} Messerability i. 1

that, whatever happen, we may escape death. In battle it is often
evident that a man may save his life by throwing away his arms and
imploring mercy of his pursures; and in all other dangers there are
many contrivances by which a person may get off with life if he
dare do or say everything. The difficulty. O Athenians, is not to
escape from death, but from guilt; for guilt in swifter than death,
and runs faster. And now I, being old and slow of foot, have been
escritaken by Death, the slower of the two; but my accousts, who
are brisk and vehement, by wickedness, the swifter. We quit this
place: I have been sentenced by you to death, but they having
sentence passed upon them, by Troth, of guilt and injustice. I
submit to my punishment, and they to theirs.

"But I wish, O men who have condemned me, to prophery to you what next is to come. I say, then, that, immediately after my death, there will come upon you a far severer punishment than that which you have milieted upon me; for you have done this, thinking by it to camps from being called to account for your lives. But I affirm that the very reverse will happen to you. There will be many to call you to account whom I have hitherto restrained, and whom you saw not; and, being younger, they will give you more amorance, and you will be still more proceded; for, if you think by putting men to death to deter others from reproaching you with living amiss, you think ill. That mode of protecting yourselves is acider very possible nor very noble; the noblest and the easiest too is not to cut off other people, but so to order yourselves as to attain the greatest excellence.

Thus much I beg of you. When my sons grow up, punish them, O Athenians, by tormenting them as I tormented you, if they shall seem to study riches, or any other ends, in preference to cirtue. And, if they are thought to be something, being really nothing, represent them, as I have reproached you, for not attending to what they ought, and fancying themselves something when they are good for nothing. And, if you do this, both I and my some shall have received what is just at your hands.

"It is now time that we deport, I to die, you to lice; but which has the better destiny is unknown to all except the God."

This is very grand and impressive, and paints the character of the man. Moyor cains of volta careerous intravit, says Sensea. He consided his surping friends, and gently upbraided them for their complaints at the injustice of the sentence. No man over faced death with greater calmosse; for no man ever welcomed it with greater faith as a new birth to a higher state of being. He would have been executed the next day, but it happened that the next day was the first of the festival of the Delian Theoriz, throng which no criminal could be put to death. This festival lasted thirty days. Secrates, though in chains and awaiting his end, spent the interval in chareful conversation with his friends, and in composing verses. 'During this time,' says Xenophou, 'he lived before the eyes of all his friends in the same manner as in former days; but now his past life was most admired on account of his present caluments and cheerfulness of mind.' On the last day he held a conversation with his friends on the immortality of the soul. This forms the subject of Plato's Physics. The arguments in that daylogue are most probably Plato's own; and it is supposed that the dying speech of Cyrus, in Xenophon's Cycoperfus, is a closer copy of the opinious of Secretes.

Plando, describing the impression produced on him by the sight of Scenates on this final day, says:—'I did not fied the pity which it was natural I should feel at the death of a friend; on the contrary, he seemed to not perfectly happy as I guard on him and listened to him; so calm and dignified was his bearing. And I thought that he only left this world under the protection of the Gods, who destined him to a more than mortal felicity in the next.' He then details the conversation on the immortality of the seal; after which, he nurrates the close of that glorious life in language worthy of it. Even in the English version of Taylor the beary of the nurrative stands numifiestly out.

When he had thus spoke, he rose, and went into a room, that he might wash tomself, and Crito followed Inn: but he ordered as to wait for him. We waited, therefore, accordingly, discoursing over, and reviewing among ourselves, what had been said, and sometimes speaking about his death, how great a calamity it would be to us; and sincerely thinking that we, like those who are deprived of their father, should pass the rest of our life in the condition of orphus. But, when he had washed himself, his sons were brought to him (for he had two little ones, and our considerably advanced in age), and the women belonging to his family likewise came in to him: but, when he had spoken to them before Crito, and had left them such injunctions as he thought proper, he ordered the hors and women to depart; and he himself returned to us. And it was now near the setting of the sun; for he had been absent for a long time in the bathing-room. But, when he came in from washing, he at down, and did not speak much afterwards; for, then, the servent of the cleven magistrates came in, and, standing near him, I do not preceive that in you, Socrates (says he), which I have taken notice of in others; I mean that they are angry with me, and core me, when, being compelled by the magistrates, I announce to them that they must drink the poison. But, on the contrary, I have found you at the present time to be the most generous, mild, and best of all the men who ever came into this place; and, therefore, I am now well convinced that you are not angry with me, but with the authors of your present condition. You know those whom I allode to. Now, therefore (for you know what I came to tell you), farewell! and endeavour to bear this necessity as vasily as possible. And at the same time, bursting into tears, and turning himself away, he departed.

*Then Crito gave the sign to the boy that stood near him. And the boy departing, and, having staid for some time, came, bringing with him the person that was to administer the poison, and who brought it properly prepared in a cup. But, Socrates, beholding the man,-It's well, my friend (says he); but what is proper to do with at? for you are knowing in these affairs. You have nothing else to do (says be) but when you have drunk it to walk about, till a leaviness takes place in your legs, and afterwards lie down; this is the morage in which you should set. And, at the same time, he extended the cop to Socrates. But Socrates received it from him, and, indeed, with great cheerfalness; acither trembling nor sufferring any alteration for the worse in his eclour or countenance, but, as he was accontinued to do, beholding the man with a bulllike aspect. What say you (says he) respecting this potion? Is it. harful to make a Metion of it, or not? We only bruise (surv he), Socrates, as much as we think sufficient for the purpose. I understand you (sups he); but it is certainly both lawful and proper to urne to the Gods, that my departure from hence thither may be attended with prosperous fortune; which I cutrest them to grant may be the case. And, at the same time ending his discourse, he drank the preson with exceeding facility and alterity. And thus far, rederal, the greater part of us were tolerably well able to referin from weeping; but, when we saw him drinking, and that he had drunk it, we could no longer restrain our tears. But from me, rideed, notwithstanding the violence which I employed in checking them, they flowed abundantly; so that, covering myself with my muntle, I deplored my minfortune. I flid not, indeed, weep for him; but for my own fortune, considering what an associate I should

be deprived of. But, Crito, who was not able to restmin his tours, was connelled to rise before me. And Apollodorus, who, during the whole time prior to this, had not ecosed from weeping, then west aloud, and with great bitterness; so that he infected all who were persent except Socrates. But Socrates, upon seving this, exclaimed. What are you doing, excellent men? For, indeed, I principally sent away the women, lest they should produce a disturbance of this kind. For I have heard it is proper to die attended with propitions omens. Be quiet, therefore, and summon fortitude to your assistance. But when we heard this we bloshed, and restrained our tears. But he, when he found, during his walking, that his legs felt heavy, and had told us so, laid himself down in a supine pealtion. For the man had ordered him to do so. And, at the same time, he who gave him the poison, touching him at intervals, considered his feet and Jegs. And, after he had rehensently present his foot, he asked him if he felt it. But Secrates assured he did not. And, ofter this, he again pressed his thighs; and, thus ascending with his hand, he showed us that he was cold and stiff. And Socrates also touched himself, and said that when the prison. reached his heart he should then leave us. But now his lower helly was almost cold; when, uncovering himself for he was covered he said (which were his last words), Crito, we one a cosk to Escalapins. Discharge this debt, therefore, for me, and don't agglert it. It shall be done (says Crito); but consider whether you have my other commands. To this inquiry of Unito he made no reply; but shortly after moved himself, and the man covered him. And Socrates fixed his eyes. Which, when Crito perceived, he closed los mouth and eyes. This was the end of our associate; a mon, as it appears to me, the best of those whom we were acquainted with at that time; and, besides this, the most prudent and just."

Thus perished this great and good man a martyr to Philosophy. His character we have endrawoured to represent fairly, though briefly. Let us now add the summing-up of Xenophen, who loved him tenderly, and expressed his love gracefully:—

'As to myself, knowing bits of a truth to be such a min is I have described; so pious towards the Gods, as never to undertake mything without first consulting them; so just towards men, as never to do an injury, even the very alightest, to my one, whilst many and great were the benefits be conferred on all with whom he had any dealings; so temperate and chaste, as not to include my appetite or inclination at the expense of whatever was modest and

becoming; so prudent as meser to err in judging of good and evil, nor wanting the assistance of others to discriminate rightly concerning them; so alde to discourse upon, and define with the greatest accuracy, not only those points of which we have been speaking, but likewise every other, and, looking as it were into the minds of men, discover the tery moment for reprehending vice, or stimulating to the love of victor; experiencing, as I have done, all these excellencies in Socrates, I can never cease considering him as the most victuous and the most happy of all mankind. But, if there is any one who is disposed to think otherwise, let him go and compare Socrates with any other, and afterwards let him determine."

After-ages have cherished the memory of his virtues and his fate; but without profiting much by his example, and without learning tolerance from his story.

§ II. PHILOSOPHY OF SOCRATES.

Opinious cary so considerably respecting the philosophy of Soerates, and unterials whereby they can be tested are so scanty, that any attempt at exposition must be made with diffidence. The historian has to rely solely on his critical skill; and on such grounds he will not, if product, be very confident.

Amongst the scattered materials from which an opinion may be formed see, 1st. The very general tradition of Secrates having produced a revolution in thought; in consequence of which he is by all regarded as the initiator of a new epoch; and by some as the founder of Greek Philosophy, properly so called. 2ndly. The express testimony of Aristotle, that he first made use of definitions and proceeded by suffection.† These two positions involve each other. If Socrates produced a revolution in philosophy, he could only have done so by a new Method. That Method we see exhibited in the phrase of Aristotle, but it is there only exhibited in a brief concentrated manner, and requires to be elucidated.

Assuredly we may echo Mr. Grote's statement, that it requires

^{*} Minurabilia ir 7.

^{† &#}x27;There are two things of which Someter must justly be regarded as the author, the Industries Recovering and alleft and Diplatitions, "while it is reservoir hipper and vi infrarious of the minutes method; he also says that Someter always proposed from propositions best known to those less known, which is a definition of Industries.

at the present day some mental effort to see anything important in the invention of notions so fundiar as those of Genus Definition Individual things as comprehended in a grans-what each thing is, and to what genus it belongs, etc. Nevertheless four centuries before Christ, those terms denoted mental processes which few, if any but Socrates, had a distinct recognition of, in the form of unalytical consciousors. The ideas of neu-speakers as well as houses. the productive mode as well as the recipient multitude-were associntral together in groups, favourable rather to emotional results, or to poetical, rhetorical surrative, and descriptive effect, than to methedical generalization, to scientific conception, or to proof either industive or deductive. That reflex act of attention which enables men to understand, compare, and meetify their own mental pricess was only just beginning. It was a recent novelty on the part of the rhetorical teachers to analyze the component parts of a public harangue, and to propound some precepts for making men tolerable speakers. It may be doubted whether any one before Socration ever used the words Genus and Species (originally meaning Family and Form), in the philosophical sense now exclusively appropriated to them. Not one of those many names coiled by logicims arms. of the second intrativa) which imply distinct attention to various parts of the heical process, and enable us to criticize it in delay, then existed. All of them grew out of the schools of Plato, Aristotle, and the subsequent philosophers, so that we can thus trace them in their beginning to the common root and father, Scentes " The novelty was very distrateful to all who were not esduced by it. Men resent being forced to rigour of speech and thought; they call you 'pedantie' if you insist on their using terms with definite meanings; they prefer the loose flowing language of indefinite association which picks up in its course a variety of heterogeneous meanings). and are irritated at any speaker who points out to them the mareuracy of their planses. Aristotle says it was thought leaf taste in his day-if depuBologia precompenies and Timon the Siller graph streastically calls Socrates one of the headhloon, as if procision of language were a vice.

'The notions of Genus, subsedimete genera, and individuals as comprehended under them, were at that time newly beought into clear consciousness in the human mind. The profusion of logical distribution employed in some of the dialogues of Plato seems worth

traceable to his wish to familiarise his hearers with that which was then a novelty, as well as to enlarge its development and diversify its mode of application.' 'We must always consider the Method of Socrates in conjunction with the subjects to which he applied it. Ou such questions as these.-What is justice?--What is piety? -What is democracy? What is law? -every man functed that he exuld give a confident opinion, and even wondered that any other person should feel a difficulty. When Socrates, professing ignorance, put my such question, he found no difficulty in obtaining an strence, given off-hand and with very little reflection. The answer purported to be the explanation or definition of a term, familiar indood, but of wide and comprehensive import, --given by one who had never before tried to render to himself an account of what it meant. Having got this answer, Soemtes put fresh questions, applying it to specific cases, to which the respondent was compelled to give answess inconsistent with the first; showing that the definition was either too narrow or too wide, or defective in some cocatial condition. The respondent then amended his answer; but this was a prelade to other questions, which could only be answered in ways inconsistent with the amendment; and the respondent, after many attempts to disentangle himself, was obliged to plend guilty to the inconsistencies, with an admission that he could make no satisfactory answer to the original query which at first had appeared so easy and familiar. . . The discussion first raised by Socrates turns upon the menning of some large generic term. The queries whereby he follows it up bring the answer given into collision with sarious particulars which it sught not to comprehend, or with others which it ought to comprehend but does not. The inconsistencies into which the heurer is betrayed in his various answers proclaim to him the fact that he has not yet acquired mything like a clear and full conception of the common attribute which hinds together the various particulars embraced under some term which is ever upon his lips. He is thus put upon the train of thought which leads to a correction of the generalization, and lights last on to that which Plate calls seeing the One in the Many, and the Many in the One.18

Become Secrates employed Induction, it is frequently stated that he anticipated Bacon's Inductive Method. Prosages can certainly be quoted in which Secrates and Bacon bold very similar language;

Gentle, vis., 553-5.

and in some respects their reform was analogous; but the differences are more profound then the resemblances. The sim and purpose of Socrates was confessedly to withdraw the mind from contemplating the phenomena of wature, and to fix at on its own phenomena; truth was to be sought by looking invarils, not by looking outwards. The nim and purpose of Bacon's photosphy was the reverse of this; be exhorted men to the observation and interpertation of mature, and energetically denomined all attempts to discover the operations of mind. If Socrates peaked too far this contempt of physics, Bacon pushed too far his contempt of psychology; the exaggeration was, in each case, produced by the absurbatics of contemporaries.

Not more decided is the contrast between their exceptions of Induction: With Socrates it was little more than Inductio per emmerationers migalicest, or "reasoning by analogy,"-the mere collection of particular facts, - a process which it was Bacon's pendiar merit to love utterly destroyed. The whole force of the Names Organism may be said to be directed against this erroseous methed. The triviality of the method may indeed be seen in the quildles to which it furnishes support in Plato; it may be seen also in the argument used by Aristippus to justify his living with Lais the coartesan. Do you think, Diogenes, that there is anything odd in inhabiting a house that others have inhabited before you?-No. Or sailing in a ship in which many men have miled before you?-No. By parity of reasoning, then, there is nothing old in living with a woman whom many men have lived with before." This quibble is a legitimate Secratic induction; and it was made by a pupil of Socrates. It is only a parody of the arguments by which it was proved that to inflict injustice is more painful than to suffer it; one of the many startling dogums attributed to Soerates. Whoever supposes this Induction to be the Baccoire Induction (which is an interrogation of nature), has missed the sense of the Norms Organics. Indeed, to suppose that such a conception as Bacon's could have been originated so early in the history of science, is radically to mistake the course of human development.

Mr. Grote has quoted several striking passages from Bacon," to show the parallel between the spirit and purpose of the Baconian and Socratic Methods; and probably most renders will agree with him when he says that Socrates sought to test the fundamental

^{*} Vol. vii. p. 612.

notions and generalizations respecting man and society in the same spirit in which Bocon approached those of Physics, he suspected the unconscious process of the growing intrifees, and desired to revise it, by comparison with particulars, and from particulars, too, the most clear and certain, but which, from being of vulgar occurrence, were loss attended to. And that which Soemtes described in his language as the "conceit of knowledge without the reality" is sdentical with what Bacon designates as the printery notions—the prerife observations - the aberrations of the intellect left to itself." But in spite of this resemblance the difference is profound, and it rises into unmistrande distinctness when we consider the results in the philosophies of the two: the Socratic Method is seen developed in Plato and Aristotle, the Baconian in Newton and Faraday, and if, as was stated in our Introduction, the adoption of the Method of graduated Verification was not owing to a previous circumscription of the sims of Philosophy, but, on the contrary, if this Method necessarily led to the circumscription, it follows that systems so metaphysical as those which came out of the Soeratic teaching must have been the produce of a very different Method from that which hel to molern science.

Conceit of knowledge, without the reality, was by Secrates perpetually stigmatized as the most diagraceful of mental defects,* and the whole effort of his terrible questioning—the 'cross-examining Eleuchm'—was to make men aware of this conceit, to prove to them that their knowledge was a alone, as Carlyle would call it. Instead of the loose, heterogeneous conceptions with which men decrived themselves and others into the belief of knowledge, he insisted on the substitution of rigorous and distinct conceptions.

How could this be done but by Definitions? To know the essence of a thing you must consider it as distinct from everything else, you must define it; by defining it you demarkate it from what it is set, and so present the thing before you in its essence.

It was a fundamental conviction with him that it is impossible to start from one true thought, and he entangled in any contradiction with another true thought; knowledge derived from any one point, and obtained by correct condination, cannot contradict that which has been obtained from any other point. He believed that Reason was pregnant with Truths, and only needed an acconcheme. An

Plato, Apologio, p. 20 (p. 114, ed. Bekher): and raise wile win daublic tario alog à describerror, è reis destina distres à sin celles;

130 SOCRATES.

accombour he announced himself; his main instruments were Definitions. By Definition he enabled the thinker to separate the particular thought he nished to express from the myrind of other thoughts which clouded it. By Definition he enabled a man to contemplate the essence of a thing, because he admitted usthing which was not essential into the definition.

The radical mistake here is the creation between Definitions of Names and Definitions of Things. In the Definition of a Name nothing more is implied than the meaning intended to be affixed; in the definition of a Thing there is, over and above this intended meaning, the assertion of a corresponding fact which the definition describes.

We have more than once commented on the named tendings of the early thinkers to missake distinctions in words for distinctions in things. We have now to signalize, in the history of speculation, its reduction of this tendency to a systematic formula. Names beneforth have the force of things. A correct Definition is held to be a true description of the Thing per sec the explication of terms is equivalent to the explication of things, and the exhibition of the nature of any thing in a definition as equivalent to our setsed one dyric of it is a followatory—are the central errors of the Platmic and Aristotelian philosophy. These errors continue to theresh in all the metaphysical systems of the present day.

When stated in a naked assumer, the abundity of this Methol is apparent; but it may be so disguised as to look profoundly photosophic. Hence the frequent use of such locations as that certain properties are 'involved in the idea' of certain things; as if being involved in the idea, i. e. being included in the definition, accessfully implied a correspondent objective existence; as if human exceptions were the faithful copies of external things. The emorptions of new widely differ; consequently different properties are 'involved' in these different conceptions; but all emact be true, and the question arises, Which conception is true? To assure this question by anything like a definition, is to argue in a circle. A principle of certitude must be sought. That principle, however, it still to seek.

The influence of the theory of definitions will be more distinity discernible as we present. It is the one grand characteristic of the Method Socrates originated. In it must be sought the explanation of his views of Philosophy.

He has been almost tounted with never having promulgated any ensirm of his own. His mak in the history of philosophy has been questioned, and has been supposed to be only that of a moralist. A passage of Aristotle has been quoted as decisive on this point : 'The speculations of Socrates were only concerning Ethics, and not at all concerning Nature in general' (vie Stee decress). But this is not att the passage: it continues thus: 'In these speculations he sought the Abstract (vo coffices), and was the first who thought of giving definitions.' Now in this latter portion we believe there is contained a hint of something more than the more moralist-a hint of the metaphysician. On turning to another part of Aristotle's treatise" we accordingly find this hint more clearly brought out; we find an express indication of the mutuply-sician. The passage is as follows: 'Speratos conserned himself with ethical virtues, and he first sought the abstract definitions of these. Before him Democritis had only concerned himself with a part of Physics, and defined but the Hot and the Cold. But Sperates, reasonably (sixtypec). sought the Essence of Things, i. a. sought what crists,"

Moreover, in mostler passage (lib. iii. c. 2) Aristotle reproaches Aristippus for having rejected science, and concerned himself solely with morals. This is surely negative evidence that Socrates was not to be blamed for the same opinion; otherwise he would have been also mentioned.

It was a natural mistake to suppose that Sociatos was only a Moralist, seeing that his principal topics were always Man and Society, and never Physical speculations, which he deemed beyond the reach of lumin intellect. If, however, Sociates had been merely a Moralist, his place in the history of Philosophy would not have been what it is; no Plato, no Aristotle would have called him minter. He made a new epoch. The provious philosophers had directed their attention to external Nature, endeavouring to explain its phenomena; he gave up all such aperulations, and directed his attention solely to the nature of Knowledge.

Men speculated at random. They sought truth, but they only built hypotheses, because they had not previously ascertained the faults and conditions of impacy. They attempted to force aciences before having settled the conditions of Science. It was the peculiar ment of Socrates to have proposed as the grand question of philosophy the nature and conditions of Science. The reader may now begin to appreciate the importance of Definitions in the Socratic Method, and may understand why Socrates slid not himself invent systems, but only a Method. He likesed himself to a Midwife, who, though mable to bring forth children berself, assisted women to their labours. He believed that in each man lay the germs of wisdom. He believed that no seisuce could be teaght; only druces set. To borrow the ideas of another was not to learn; to guide oneself by the judgment of another was blindness. The philosophers, who pretended to teach encrything, could teach nothing; and their ignorance was manifest in the very pertension. Each man must compare truth for binself, by rigid struggle with houself. He, Socrates, was willing to assist any man when in the prints of labour: he sould do no more.

Such being the Method, we cannot wonder at his laving attacked himself to Ethical rather than to Physical speculations. His plalosophy was a realization of the inscription at Delphos—Know Thyself. It was in Limself that he found the ground of certitude which was to protect him against scaptisism. It was therefore ment science which he prized above all others. Indeed, we have great reason to believe that his energetic denomicanent of Physical speculations, as reported by Xenopheu, was the natural, though congented, conclusion to which he had been learned by a consideration of the manifold absaudities into which they drew the mind, and the scepticism which they induced. There could be nothing but marriainty on such sobjects.

'I have not bissure for such things,' he is made to say by Plate, 'and I will sell you the reason: I am not yet able, according to the Delphis Inscription, to Kasse aspelf; and it appears to me very ridiculous, while ignorant of myself, to impaire into what I am not concerned in.' That he dot, however, at one period occupy himself with them is clear from other sources, and is a point in the causely of the Clouds, where he is represented 'air-treading and speculating about the sun,'—depoSaré and mysepacoù vir (Aur,—and his disciples weeking things hidden underground—ré soré yès. This has led many to suppose that Aristophanes know nothing whatever of Secretes, but only took him as an available comie type of the Sephists,—a supposition to which there are several objections. Firstly, it is not usual in saturists to select for their buit a person of when they know nothing. Secondly, Secretes, of all Athenians, was the

^{*} Phobus, p. 8.

most notorious, and most easily to be acquainted with in a general way. Thirdly, he could not be a type of the Sophists, in as far as related to physical speculations, since we well know the Sophists second physics. Fourthly, he did occupy himself with Physics early in his career; and probably did so when armophones satirated him, although in after-life he regarded such speculations as trivial.

It was quite possible that Aristophanes should have made no such nice discrimination between the dialectical quibbling of Sacraces and that of the Sophists, as would present him from repressenting Socrates tracking the art to make the wome supear the better reason;" but it is searedy credible that he should have made so flagrant a mistake in to accuse Socrates of busying himself. with Physics, when every one of the audience could answer that Sograces mover troubled himself at all about it. In our day Proudhon and Louis Blane are often classed together as teachers of the same Socialist disettraces; or Strauss and Fenerbuch as teachers of the same theological doctrines; but no satirist would laugh at Louis Blanc for his astronomical speculations, or at Strauss for his devotion to the Microscope. The Aristoplanic ornioner, therefore, seems perfeetly admissible as respects the physical speculations of Socrates at so about the time when the Closels was produced. If they were afterwards relinquished, it was because they led to no certainty.

That Philosophy, and not Morala was really the aim of Socrates, is clear from his subordination of all morals to science. He considers Virtue to be identical with Knowledge.† Only the wise man, said he, can be brave, just, or temperate. Vice of every kind is Ignorance; and involuntary, because ignorant. If a man is row-

^{*} Nobes, v. 112-15.

[†] Openious fero rises researed that Virtue example he Science, connect is taught. But this is not Security. "Whether Virtue can be taught was a question much agitated in the time of Science, who appears to give contradictory decisions on different occasions. Comp. Plat. Mon., pp. 96, 38, with Protegorus, p. 263, in the latter of which passages be consumed as own monasteney, in first decrying that Virtue can be insight, and then maintaining that Virtue is Science. According to Xenophen, Mon. i. 2, 10, Secretor assess to large adapted the common-sense view that Virtue is partly matter of teaching, partly of practice (insertie), and partly of natural disposition. But Xenophen was unconscious of the logical difficulty of reconciling this with that identification of Virtue with Science or Windom which he classifier distinctly stimitones to his masses."—Thompson's Note to Suffer's History of Philosophy, i. 274.

arelly, it is because he does not rightly approxiate the importance of life and death. He thinks death an evil, and there it. If he were wise, he would know that thath is a good thing, or, at the were, an indifferent one, and therefore would not sham it. If a man is intemperate, it is because he is mable to estimate the relative value of present pleasure and future pain. Ignorance misleads him, It is the nature of man to seek good and shan ovil; he would never seek exil, knowing it to be such; if he seeks it, he mistakes it for good: if he is intemperate, it is because he is nawise.

Method was his all-in-all. Nor is it impossible to trace the origin of this conception in his mind. The Pythian oracle had declared him to be the wisest of men. The assertion greatly puraled him, for he found on deep introspection that he knew nothing; all his funcied knowledge was that conveit of knowledge without the reality, which he saw suffing up other men; and his sole distinction was that he knew the douth of his own agnorance, while they believed themselves to be knowing; and it was because be knew this that he understood the meaning of the oracle. Thus much we have on his explicit authority. If we now consider that his title of the 'wisest' was eveing to the profound consciousness of the unreality of all which hitherto had passed for wisdom (the proof of which was exposed by means of his cross-examining Elenchusi, so shall be able to understand how it was he came to make his Method in and for itself the great nim of Philosophy, and how instead of desiring to make converts to any system, or to gain acceptance for any special theories on physics or ethics, he always and everywhere desired to awaken the cross-examining mint in the minds of his heavers, so that each in his own term might awaken it in others, because in this, and this alone, consisted real Wisdom. Previous philosophies had shown the fatility of speculation; certitude was nowhere to be had; all such theories were his the connect of kneeledge. The Method which he taught was that by which also man could become wiser and better.

It is clear that the movelty of the Method so completely bednated him as to prevent his detecting the confusion he made between end and means. And the reader may understand how such a confusion neight very naturally love maintained itself, if he reflects how very analogous is the purvoin of purely mathematical science by hindreds who care nothing for the applications of mathematics. Lying at the base of all physical science is a gent and complex science of Countrity,—the one indispensable Instrument by mems of which Knowledge); but so vast and so complex is this Instruquantitative knowledge); but so vast and so complex is this Instrument, that mancrons intellects are constantly orgaged in studying and perfecting it, sever once satisfares a from it by any attempt at application. In a similar way Somutes, and for the most part Plato likewise, cared exclusively for Method; perfecting the Instrument of sured, rather than seeking.

Although Secretes was not the first to teach the doctrine of the immertality of the soul, he was the first to give it a philosophical book. Nor can we read without admiration the arguments by which he anticipated writers on Natural Theology, by pointing out the evidences of a beneficient Providence. Listen to Xenophou:—

'I will now relate the nameer in which I once heard Socrates discoursing with Aristodeums, surnamed the Little, concerning the Drity; for observing that he neither prayed nor sacrificed to the Gods, but, on the contrary, ridicaled and laughed at those who did, he said to him:—

*Tell me, Aristodemus, is there any man whom you admire on account of his merit? Aristodemus having answered "Many,"— Name some of them, I pluy you. I admire, said Aristodemus, House for his Epic poetry, Mohaippides for his distigrambles, Sophooles for tragedy, Polycletus for statuary, and Zeusis for painting.

"But which seems to you most worthy of admiration, Aristodesmus;—the artist who forms images void of motion and intelligence, or one who listle the shill to produce minuals that are endued not only with activity, but understanding?—The latter, there can be no doubt, replied Aristodemus, provided the production was not the effect of clames, but of wisdom and contributes.—But since there are many things, some of which we can easily see the use of, while we cannot say of others to what purpose they were produced, which of these, Aristodemus, do you suppose the work of wisdom?— It should seem the most reasonable to affirm it of those whose fitness and utility are so evidently apparent.

But it is evidently apparent that He who at the beginning made non, enduced him with senses because they were good for him; eyes, wherewith to behold whatever was visible; and cars, to hear whatever was to be beard; for say, Aristolerous, to what purpose should calcure be prepared, if the sense of smelling had been denied? or why the distinctions of hitter and sweet, of severy and unsavoury, unless a pulate had been likewise given, recoveriently placed, to arbitrate between them and declare the difference? Is not that Providence, Aristodourus, in a most eminent martier compiencas, which, because the eye of man is so delicate in its contexture, both therefore prepared eyelids like doors, whereby to secure it, which extend of themselves whenever it is needful, and again close when sleep approaches? Are not these cyclids provided as it were with a fence on the edge of them, to keep off the wind and guard the eye? Even the excluse itself is not without its office, but, as a penthone. is prepared to turn off the sweat, which, falling from the forehead. might cuter and amove that no less tender than astroishing part of us. Is it not to be admired that the ears should take in seemes of cours sort, and yet are not too much filled by them? That the face. treth of the animal should be formed in such a manner as is evidently best suited for the cutting of its food, as those on the side for gooding it to pieces? That the mouth through which this food is converted, should be placed so near the nose and eyes as to prevent the passing nanoticed whatever is unfit for assimilment; while Nature, on the contrary, both set at a distance and convaled from the senses all that might disgust or any way offend them? And coust thou still doubt, Aristodenms, whether a disposition of para like this should be the work of clance, or of wisdom and contriumee? - I have no longer any doubt, replied Ariscoleron; and, indeed, the more I consider it, the more evident it appears to me that man must be the masterpiece of some great artificer; carring along with it infinite marks of the love and favour of Him who both thus formed it.

"And what thinkest them, Aristodesius, of that desire in the individual which leads to the continuous of the species? Of that traderness and affection in the female towards her young, so neeccessy for its preservation? Of that engenetical love of life, and dread of dissolution, which take such strong possession of its from the moment we begin to be? I think of them, answered Aristodesius, as so many regular operations of the same great and was Artist, deliberately determining to preserve what he both made.

'But, farther (unless than desirent to ask me questions), seeing Aristodemus, than thyself art conscious of reason and intelligence, supposes than there is no intelligence classifier? Thes bearest thy body to be a small part of that wide extended earth which the everywhere beholdest: the moisture contained in it, thus also knowest to be a small portion of that mighty mass of waters, whereas the unselves are but a part, while the rest of the elements one

tribute out of their abundance to thy formation. It is the soal then alone, that intellectual part of us, which is come to thee by some lacky chance; from I know not where. If so be there is indeed no intelligence claewhere; and we must be forced to confess, that this stapendous universe, with all the various bodies contained therein,—equally amazing, whether we consider their magnitude or number, whatever their use, whatever their order,—all have been postaced, not by intelligence, but by obnace!—It is with deficulty that I can suppose otherwise, returned Aristodennus; for I behold note of those Gods whom you speak of as making and governing all things; whereas I see the artists when at their work here among us.—Neither yet seest than thy soal, Aristodennus, which, however, most assuredly governs thy body; although it may well seem, by thy manner of talking, that it is chance, and not reason, which governs thee.

I do not despise the Gods, and Aristodemus; on the contrary, I conceive so highly of their execliques, as to suppose they stand in no need either of me or of my services. - Thou mistakest the matter, Aristodemus; the greater magnificence they have shown in their care of three so much the more honour and service thou owest them. -Be assured, said Aristodemus, if I ouce could be persuaded the Gods take care of nam, I should want no monitor to remind me of my duty.-And const thou doubt, Aristodenus, if the Gods take cure of man? Hath not the glorious privilege of walking upright been alone bestowed on him, whereby he may with the better advantage survey what is around bine, contemplate with more case three splendid objects which are above, and avoid the numerous ills and inconveniences which would otherwise befall him? animals indeed they have provided with feet, by which they may remove from one place to another; but to man they have also given hands, with which he can form many things for his use, and make himself happier than creatures of say other kind. A tongue hath been bestowed on every other animal; but what animal, everyt man, hath the power of forming words with it, whereby to explain his thoughts, and make them intelligible to others?

But it is not with respect to the body above that the Gods have shown themselves thus bountiful to man. Their most excellent gift is that soul they have infraced into him, which so far surpasses what is chewhere to be found; for by what animal, except man, is even the existence of those Gods discovered, who have produced and still uphold, in such regular order, this beautiful and stupendous

frame of the universe? What other species of creature is to be found that can serve, that can adore them? What other animal is able like man, to provide against the assaults of host and cold, of thirst and bruger? that can be up remedies for the time of sick. ness, and insurous the strength nature has given by a well-procestioned exercise? that can receive like him information or instruction; or so happily keep in memory what he both seen, and hand, and learns? These things being so, who seeth not that man is, as it were, a God in the midst of this visible creation | so far dath he surpass, whether in the endowments of soul or body, all annuals whatsoever that have been produced therein; for if the body of the on had been joined to the mind of man, the acuteuess of the latter would have stood him in small stead, while unable to execute the well-designed plan ; nor would the human form have been of sure tion to the heate, so long as it remained destinate of understanding! But in thee, Aristodemus, bath been joined to a wonderful and a body no less wunderful; and sayest thou, after this, the Gods take no thought for me? What wouldst then then more to compace thee of their care?

"I would they should send and inform use, said Anstoleaus, what things I reight or ought not to do, in like manner as then sayest they frequently do to thee .- And what then, Aristolaum? supposest those that when the Gode give out some oracle to all the Athenius they mean it not for thee? If by their proligies they declare alond to all Greece, to all monkind, the things which shall befull them, are they dumb to thee alone? And are thou the only person whom they have placed beyond their care? Believed then they would have wrought into the mind of man a persuation of those being able to make him happy or miserable, if so be they had no such power? or would not even man himself, long ere this, have som through the gross delusion? How is it, Aristodeaus, then remosbenest or remarkest not, that the kingdoms and communicable most renowned as well for their wisdom as antiquity, are these whose pietr and devotion both been the most observable? and that even man himself is never so well disposed to serve the Drity or in that part of life when reason bears the greatest may, and his judgment is supposed in its full strength and maturity? Consider, my Aristodemus, that the soul which resides in the body can govern it at pleasure; why then may not the soul of the universe, which pervades and animates every part of it, govern it in like mounter? If thine eye hath the power to take in many objects, and those

placed at no small distance from it, murvel not if the eye of the Deity can at one glines comprehend the whole. And as thou perceivest it not beyond thy shility to extend thy care, at the same time, to the concerns of Athens, Egypt, Siedy, why thinkest thou, my Aristodemus, that the Providence of God may not easily extend itself through the whole universe?

"As therefore, among men, we make best trial of the affection and gratitude of our neighbour by showing him kindness, and discover his wisdom by consulting him in his distress, do thou in like manner behave towards the Gods; and if thou wouldst experience what their wisdom and what their love, render thyself deserving the communication of some of those divine secrets which may not be penetrated by man, and are imported to those above who consult, who adore, who obey the Deity. Then shall thou, my Aristodemus, understand there is a Being whose eye pierceth throughout all nature, and whose our is open to every sound; extended to all phases, extending through all time; and whose bounty and care can know no other bound than those thou by his own creation.

"By this discourse, and others of the like nature, Soemtes tought his friends that they were not only to forbear wholever was impicus, unjust, or unbecoming before man; but even when alone they ought to have a regard to all their serious, since the Gods have their eyes continually upon us, and none of our doings can be concealed from them."

To this passage we must add another equally deserving of attention:-

*Even among all those deities who so liberally history on us good things, not one of them maketh basself an object of our sight. And He who raised this whole universe, and still upholds the mighty frame, who perfected every part of it in beauty and in goodness, suffering none of these parts to decay through age, but renewing them daily with unfailing vigour, whereby they are able to excente whatever be ordains with that rendiness and precision which surpose man's imagination; even He, the supreme God, who performeth all these wonders, still holds bimself invisible, and it is only in his works that we are capable of admiring bine. For consider, my Enthydemus, the sun, which seemeth as it were set forth to the view of all men, yet suffereth not itself to be too curiously examined; punishing those with blindness who too rashly venture so

^{*} Memorabilia, 1.4.

to do; and those ministers of the Gods, whom they employ to execute their bidding, remain to us invisible; for though the thunder-bolt is shot from on high, and breaks thin pieces whatever it finds in its way, yet no one seeth it when it falls, when it strikes, or when it retires; neither are the winds discoverable to our night, though we plainly behold the ravages they everywhere make, and with case perceive what time they are roing. And if there be anything in man, my Enthydenius, partaking of the divine minure, it must surely be the soul which governs and directs him; yet no use considers this as an object of his sight. Learn therefore not to despise those things which you cannot see; judge of the grantum of the power by the effects which are produced, and revenues the Deity."

In conclusion, we must notice the vexed question of the Deman of Socrates. The notion most generally current is that he believed himself accompanied by a Demon, or Good Angel, who whapered connects in his car, and forewarmed him on critical occasions. This has been addresed as cridence of his 'superstition;' and one unter—to be sure he is a Fernelman—makes it a text to prove that Socrates was mal.† Olympiodorus said that the Damon only must Conscience, an explanation which, while it effices the peculiar characteristics of the conception, is at the same time totally mapplicable to those cases when the Damonic voice' spoke to Socrates concerning the affairs of his friends, as we read in Plato's Thospis, By other writers the Damon has been considered as purely allogorical.

The first point necessary to be distinctly understood is, that Socrates believed in no special Diemon at all 1 and to translate Plutarch's treatise into De Gesio Socratis, and hence to speak of to disconde Socrate, is gross misconception. Nowhere does Socrate, in Plato or Xesophon, speak of a genius or demon, but always of a demonic coverthing (vo Soupcisco, Soupcisco, vi), or of a sign, a soio, a divise sign, a slivise point. The second point necessary to be

[&]quot; Memorabible, iv. 2.

[†] Lifter, Do Dieses of Seconts, 1836. A new edition of this work appeared in 1856, and excited a "negation."

² See pursuges cited in Zeffer, i. 28 (1805). Mr. Thompson in his sold to Butler, i. 375, says — Clemens Alexandrinus in one manage conjecture that the Improves of Socrates may have been a function gentra. Stron. v. p. 507. This conjecture becomes no assertion in Lecturesian (Lect. D. ii. 14), who converts the describes into Armon. Apaleiro. It is true, had already belt the unit to this error in his treatise Do Dee Socratio. It is adopted without ample.

remembered is, that this 'diring voice' was only an occasional manifestation, and exercised only a restraining influence. On the great critical occasions of his life, if the voice warned him against any step he was about to take, he unlassitutingly obeyed it; if the voice was unheard, he concluded that his proposed step was agreeable to the Gods. Thus, when on his trial, he refused to prepare any defence, because when he was about to begin it the voice restrained him, whereupon he resigned himself to the trial, convinced that if it were the pleasure of the Gods that he should die, he ought in no wise to struggle—if it were their pleasure that he should be set free, defence on his part was needless.

This is his two explicit statement; and surely in a Christian country abounding in examples of persons believing in direct intimations from above, there can be little difficulty in crediting such a statement. Socrates was a profoundly religious man; he was moreover, as we learn from Aristotle, a man of that bilious melancholic temperaments which has in all times been observed in persons of unusual religious fervour, such as is implied in those momentary exaltations of the mind which see mistaken for divine visits; and when the rush of thought came upon him with strange warning mices, he believed it was the Gods who spoke directly to him. Unless we conceive Soemtes as a profoundly religious man, we shall misconcrive the whole spirit of his life and teaching. In many respects he was a fanatic, but only in the noble sense of the word; a man, like Carlyle, intolerant, vehement, 'possessed' by his ideas, but, like Carlyle, preserved from all the worst consequences of such intolerance and possession by an immense humour and a tender heart. His Saturaine melancholy was relieved by laughter, which softened and humanized a spirit otherwise not less rehement than that of a Dominic or a Calvin. Thus strengthened and thus noftened. Socrates stands out as the grandest figure in the world's Pantheon: the bravest, truest, simplest, wisest of mankind.

by Augustian and other Christian writers; and, as might have been expected, by Figures and the earlier moderns, as Stanley and Ducker, in whose writings the disassessing appears fell-fielded as " on attendant spirit" or "good angel."

^{*} tiero pakayyaharje, Armietle, Problem. 20.

FIFTH EPOCH.

PARTIAL ADOPTION OF THE SOCRATIC METHOD.

§ I. THE MEGARIC SCHOOL-ECCLID.

SEVERAL philosophers,' says Ciccro, 'drew from the conversations of Socrates very different results; and, according as
each adopted views which harmonized with his own, they in their
turn became heads of philosophical schools all differing aroung
each other.' It is one of the perminenters of a philosophical Method, to adapt itself indiscriminately to all sorts of systems. A
scientific Method is confined to one: if various and opposing systems spring from it, they spring from an erroneous or imperfect
application of it.

We must not be surprised therefore to find many controllerory systems claiming the parentage of Socrates. But we must be an our guard against supposing that this adaptation to various systems is a proof of the excellence of the Socratic Method. It is only a proof of its vagueness. It may be accepted as a sign of the great influence exercised upon succeeding philosophers; it is no sign that the influence was in the right direction.

As we said, Socrates had no school; he taught no system. He exhibited a Method; and this Method his hearers severally applied. Around him were near of various ages, various temperaments, and various opinious. He discoursed with each upon his own solicity with Xenophon on politics; with Theages or Theatetus on science; with Antisthenes on morals; with Ion on portry. Some were convisced by him; others were merely rejuted. The difference between the two is great. Of those who were convinced, the so-called Socratic Schools were formed; those who were only related became his enemies. But, of the former, some were naturally only more at less convinced; that is, were willing to adopt his opinious on some subjects, but remained stubborn on others. These are the imperfect Socratics. Amongst the latter was Euclid of Megarn.

ETTERD. 143

Evenue, who must not be confounded with the great Mathematiries, was born at Megaru; date probably between 450 and 440 a.c. He had early imbilised a great love of philosophy, and had diligently studied the writings of Parmenides and the other Electics. From Zeno he acquired great facility in dialectics; and this continued to be his chief excellence even, after his acquaintance with Socrates, who reproved him for it as sophistical.

His delight in listening to Socrates was so great that he frequently exposed his life to do so. A decree was passed, in somequence of the country existing between Athens and Megara, that my inhabitant of Megara found in Athens should forfeit his hie; Euclid, however, braved the penalty. He frequently came to Athens at night, disguised as a female. The distance was twenty unless. At the end of his journey he was recompensed by the fiscinating conversation of Socrates; and he returned to meditate on the results of their arguments.

Bracker's supposition that a repture was caused between them in consequence of Socrates having reproved Euclid's disputations tendeary, is wholly without foundation, and seems contradicted by the netorious fact that when, on the death of Socrates, Plato and the unipority of the disciples retired to Megara, in fear of some popular outbreak of the Atlantisms, who were in a state of rage against all the philosopher's friends, Euclid received them well. Bound by the same time of friendship towards the identicious martyr, and sharing some of his opinious, the Socratists made some stay in Megara. Differences however arose, as they will amongst all communities of the hind. Plato and some others returned to Atheno, as som as the state of the public mind admitted their doing so with safety. The rest remained with Euclid.

'The character of the Megarie doctrine,' says Ritter, 'so for as it is possible to fix it in the defective state of our information, may be briefly given as the Electic view calarged by the Socratic consistion of the moval obligation, and the laws of scientific thought.'

We confess our includity to comprehend this. In Earlid we have no hint of 'moral obligation;' in Socrates we find to detect the 'laws of scientific thought.' If by the former Ritter neuro, that Eurlid gave an Ethical and Socratic meaning to the Electic doctrine, be is correct; if by the latter he means, that Euclid adopted the Socratic Method of Induction and Definitions, he is hopelessly wrong; and, if this is not what he means by 'laws of scientific thought,' we are at a less to understand him. Eachid agreed with the Electrics in maintaining that there was but One malterable Being, to be known by Berson only. This One Being was not simply The One; acither was it simply Intelligence; it was The Good. This One Bring received various names according to its various aspects; thus it was sometimes Wisdom (delegone); sometimes God (feels); at others Remon (reis), and so forth. This One Good (feels) is the only Bring that really exists; everything opposed to it has nothing but a phenomenal, transitory existence.

Such is the outline of his doctrine, as presented by Diogenes Louvins. In it the reader will have no difficulty in detecting both the Eleatic and Socratic elements. The conception of God as si dyadio—the Good—is purely Socratic; and the denial of any existence to things opposed to the Good is an explanation of that pasage in Plato's Republic, where Socrates declares God not to be the nather of all things, but only of such as are good.

The Megaric docuries is therefore the Electic doctrine, with as Ethical tendency borrowed from Socrates, who taught that visite was not any partial cultivation of the human mind, but constitute the true and entire essence of the rational man, and indeed of the whole universe. The identification of Vartne with Wisdom is also Socratic.

With respect to Euclid's dialectics there is one point, often alluded to, variously interpreted, and which is in direct opposition to the Method of Socrates. In refetting his adversaries he did not attack the premises, but the conclusion. This is certainly not the manner of Socrates, who always managed to draw new enclusions from old premises, and who, as Xenophon says, proceeded from the generally known to the less known. As if to mark this distinction more completely, we are told that Euclid rejected the associated mode of renoming (via čad suspassaries képes). If, said he, the things compared are alike, it is better to confine the attention to that originally in question; if the things compared me unlike, there must be error in the conclusion. This precept strikes into the weakness of Socrates' method of induction; which was a species of analogical reasoning not of the highest order.

^{*} Mi mirror ofrom the deim, third rise Synthon II. 100.

[†] Dieg. Locat in 197. This is pursphrased by Earthold into the following contradictory statement:—'He judged that legitimate argumentation we dots in deducing feir conclusions from acknowledged promises.'—Hall of Phil. i. 198.

In dialectics therefore we see Euclid following out the Eleatic tendency, and carrying forward the speculations of Zeno. It was this portion of his doctrace that his immediate followers, Eubolides, Diodorus, and Alexinus, undertook to carry out. The Socratic element was further developed by Stilps.

The majority of the later members of the Megaric School,' says flitter, 'are famous either for the refutation of opposite doctriess, or for the invention and application of certain fallness; on which account they were occasionally called Eristici and Dialectics. Still it may be presumed that they did not employ these fallness for the purposes of debusion, but of instructing rash and hasty thinkers, and exemplifying the superficial vanity of common opinion. At all events it is certain that they were mainly occupied with the forms of thought, more perhaps with a view to the discovery of particular rules, than to the foundation of a scientific system or method.'

§ II. THE CYRENAUC SCHOOL.—ARISTIPPUS.

Among the 'imperfect Socratists' we must rank Aristippus, the founder of the Cyrenaic School, which borrowed its name from the hirthplace of its founder—Cyrene, in Africa.

Aristippes was descended from wealthy and distinguished purents, and was consequently thrown into the vortex of luxurious debunchery which then characterized the colony of Minyre. He came user to Greece to attend the Olympic games; there he heard so much of the wisdom of Socrates that he determined on listening to his enchanting discourse. He made Socrates an offer of a large sum of money, which, as usual, was declined. The great Talker did not accept money; but he willingly admitted Aristippus among the wamber of his disciples. It is commonly asserted that the pupil did not agree well with his master, and that his feedness for pleasure was offensive to Socrates. There is no good authority for such an assertion. He remained with Scenars until the execution of the latter; and there was no bond on either side to have prevented their separation as soon as they disagreed. The impression seems to have originated in the discussion reported by Xenophon,* wherein Aristippus expresses his political indifference, and Secrates, by an exaggerated extension of logic, endeacours to prove his views to be absurd. But this is simply a divergence of opinion, such as

[.] Memorabilia, ii. L.

must have existed between Sogrates and many of his followers. It merely shows that Aristippus thought for himself. Sogrates with such near as Aristippus and Alcabindes reminds one of Dr. Johnson with the 'young bloods' Tophem Beaucierk and Bernet Langton: he was nice coungh and tolerant enough not to allow his virtue to be searchifized by their love of pleasure.

From Ashens he went to allgins, where he surt with Lais, the world-ernormed courtesan, when he accompanied to Ceristh. On his way from Coristh to Asia to was shiperceked on the island of Blodes. On the sus-court he discovered a geometrical diagram, and exchainsed, 'Take rearage; I see here the footsteps of men.' On arriving at the principal town, he managed to procure for himself and friends a hospitable reception. He used to say, 'Send two men amongst strangers, and you will see the advantage of the philosopher.'

Aristippus was one of those

"Children of the Sun, whom blood is fire,"

but to strong seasond possions he united a calm regulative intellect. Proof to luxury, he assided excess. Easy and careless in ordinary affairs, he had great dominion over his desires. Pleasure was his grand object in life; but he knew how to temper enjoyment with moderation. In disposition he was easy and yielding, a follow of infinite mirth,' a philosopher whose brow was never 'wicklish o'er with the pale cast of thought." He had none of that dignity which mistakes a stiff neck for healthy virtue. He had no stemment. Gay, brilliant, careless, and enjoying, he became the ornament and deligit of the Court of Dicaysion; that Court already illustrates to the splendid genera of Plato and the rigid abstinence of Disgenes. The grave deportment of Plato and the savage sirese of Diogenes had less charm for the Tyrast than the easy gairty of Aristoppus, whose very vices were elegant. His ready wit was edien just to the test. On one occasion three Actions were preunited for him to make a choice: he took them all three, observing that it had been fatal even to Paris to make a choice. On mother occasion, in a dispute with Æarlines, who was becoming violent, be suit. Let us give over. We have quarrelled, it is true; but I, as your senior, lane a right to claim the precedency to the reconsitseless." In his old-age he appears to have returned to Cyrene, and there opened his trhool.

[&]quot; Serentl of his reporters are recorded by Laureius. We add the last of

His philosophy, as Hegel remarks, taken its colour from his personality. So individual is it, that we should have passed it over entirely, had it not been a precursor of Epicureenium. Its relation to Socrates is also important.

In the only passage in which, as far as we know, Aristotle* mentions Aristoppes, he speaks of him as a Sophist. What does this mean? Was he one of the professed Suphists? No. It means, we believe, that he shared the opinion of the Sophists respecting the uncertainty of Science. That he did share this opinion is evident from Sextus Empiricus,† who details his remous; such as, that external objects make different impressions on different senses; the names which we impose on these objects express our sensations, but do not express the things; there is no criticians of truth; each judges according to his impressions; more judge correctly.

In so far he was a Sophist; but, as the disciple of Socrates, he learned that the conference of tenth most be sought within. He dismissed with contempt all physical speculations, as subjects beyond human comprehension, and concentrated his researches upon the nortal constitution of man.

In so far he was a Socratist. But, although he took his main direction from Socrates, yet his own individuality quickly turned him into bye-paths which his master would have shoused. His was not a scientific intellect. Logical deduction, which was the rigorous process of his master, suited neither his views nor his disposition. He was ownse from abstract speculations. His tendency was discetly towards the concrete. Hence, while Socrates was preaching about 'The Good, Aristippus wished to specify what it was; and resolved it into Pleasure. It was the pith and kernel of Socrates' Ethical system, that Happiness was the aim and desire of all mea—the motor of all section; men only erred because of vironeous

them:—Scients, the treasurer of Disaysias, a sam of low classifier but imments wealth, once showed Aristippus over his house. While he was expatiating as the splendour of every part, oven to the floors, the philosopher spat in his face. Second was furious. 'Pardon me,' excitated Aristippus, 'there was no other place where I could have spat with decreasy.' One day, in interteding with the Tyount for a friend, he there himself on his lasers. Being reproached for such want of dignity, he nearested, 'hi it my finds if Disaysias has his sure in his feet?' One day he noted the Tyrant for some money. Disaysian much him sum that a philosopher had no need of money. 'Girs, gire,' replied Amstroppus, 'and we will would the question at case.' Disaysian gire. 'Nec.' unit the philosopher, 'I have no need of money.'

notions of what constituted Happiness. Thus the wise man alone knew that to endure an injury was better than to inflict it; he alone knew that immoderate granification of the senses, being followed by misery, did not constitute Happiness, but the contrary. Aristippus thought this too vague. He not only reduced this general idea to a more specific one, namely, Pleasure; he endeavoured to show here truth had its only criteries in the sensation of pleasure or of pain. Of that which is without as we can know nothing truly; we only know through our senses, and our senses deceive as with respect to objects. But our senses do not deceive us with respect to objects. But our senses do not deceive us with respect to our sensetions. We may not perceive things truly; but it is true that we perceive. We may doubt respecting external objects; we cannot doubt respecting our sensations. Amongst these sensations we materally seek the repetition of such as are pleasurable, and shan those that are painful.

Pleasure, then, as the only positive good, and as the only positive test of what was good, he declared to be the end of life; but, innumels as for constant pleasure the soul must preserve its decention over desires, this pleasure was only another form of the Socratic temperature. It is distinguished from the Socratic conception of Pleasure, however, in being positive, and not merely the gratification of a want. In the Placets, Socrates, on being released from his classes, reflects upon the intimate connection of pleasure and pain; and calls the absence of pain pleasure. Aristippus, on the contrary, taught that pleasure is not the more removal of pain; they are both positive emotions; non-pleasure and non-pain are not emotions, but as it were the sleep of the soul.*

In the application of this decreise to others, Aristippes betrays both his Suphistic and Socratic education. With the Suphists be regarded pleasure and pain as the proper criteria of actions; to action being in itself either good or bad, but only such according to convention. With Socrates, however, he regarded the advantages acquired by injustice to be triffing; whereas the cells and approhensions of punishment are considerable; and pleasure was the result, not of individual peroperity alone, but of the welfare of the whole State.

In reviewing the philosophy, such as it was, of Aristippus, we cannot fail to be struck with the manifest influence of Sorrates; although his method was not followed, we see the others tendency

^{*} Diog. Lacre fi. 59.

predominating. In the Megarie School the abstract idea of The Good (vé árya?ir) of Socrates, was grounded on the Elentic conception of The One. In the Cyrennic, the abstract conception was reduced to the concrete, Pleasure; and this became the only ground of certitude, and morals the only science. In the Cynic School we shall see a still further development in this direction.

\$ III. THE CYNES,-ANTISTREMES AND DIOGENES.

Cynicism is an imposing blasphemy. It imposed on antiquity; it has imposed on many modern imaginations by the energy of its sulf-denials; but it is a 'blasphemy against the divine beauty of life,' blasphemy against the divinity of man. To lead the life of a Dog is not the vocation of Man.

Nevertheless there were some points both in the characters and doctrines of the founders of this School which may justly claim the almiration of mankind. Their contemporaries regarded them with feelings mingled with awe. We so least may pay a tribute to their energy.

Antisthenes was born at Athens, of a Playgian mother. In early life he distinguished himself at the battle of Tanagra. After this he studied under Gorgiss, the Sophist, and established a school for himself; but, captivated by the practical wisdom of Socrates, he crawd to track, and became once more a popd; my more, he persuaded all his popils to come with him to Socrates, and there from true wisdom. This is grantine modesty, such as philosophers have mrely exhibited. He was then comewhat advanced in life; his opinions on many points were too deeply rooted to be exchanged for others; but the tendency of the Socratic philosophytowards Ethics, and the character of that system as leading to the moral perfection of man, seemed entirely to captisate him. It will be remembered that Socrates did not truch positive doctrines; he enabled each earnest thinker to evolve a doctrine for himself. All Soemtes did, was to give an impulsion in a certain direction, and to furnish a certain Method. His real disciples accepted the Method; his imperfect disciples only accepted the impulsion. Antisthenes was of the latter. Accordingly, his system was essentially personal. He was stern, and his doctrine was rigid; he was proud, and his doctrine was hanghty; he was cold and his doctrine was mayinpathiring and self-isolating; he was brave, and his doctrine was a battle. The effeminacy of the buxurious by despised; the baseness of courtiers and flatterers he hated. He worshiped Virtue; but it was Virtue sometimes ferocious and unbending.

Even whiler with Secretes be displayed his contempt of ordinary usages, and his pride in differing from other men. He used to appear in a threathers clock, with estentiations poverty. Secretes now through at all, and exclained, "I see your vinity, Autistheres, parring through holes in your clock!" How different was this from Secretes! He, too, had issued bimself to povery, in heat and to-cold, in order that he might bear the clauses of firstune; but he made so virtue of large ragged, languy, and cold. Autisthesis thought he could only preserve his virtue by becoming a samps. He were no garment except a coarse clock; allowed his heard to grow; energial a wallet and a stuff; and renounced all dist but the simplest. His manners corresponded to his appearance. Stern, represental, and bitter in his language; energies and indecent in his gestures. His contempt of all second enjoyment was expressed in his saving. I would rather be mad then sensual!"

On the death of Socrates he formed a school, and choos for his place of meeting a public place in that quarter of Athem called the Cynoneges, from which some say the sect of Cynics derivates name; others derive it from the snarling proposities of the founder, who was frequently called 'The Dog.' As he grew old, his gloomy temper became morose; he became so imappertable that all his scholars left him, except Diogenes of Smore, who was with him at his death. In his last agony, Diogenes asked him whether he needed a friend. 'Wall a friend release toe from this pain?' he replied. Diogenes gave him a diagger, saying, 'This will.' I wish to be freed from pain, not from life,' was the reply.

The contempt he uniformly expressed for mankind may be real in two of his sayings. Being asked, what was the peculiar alvantage to be derived from philosophy, he answered, "It enables me to keep computer with myself." Being told that he was greatly praised by many, "Have I done anything avong, then, that I am praised?" he asked."

^{*} It is that we would interpret Ding Laces, of I -- Marries alither is include. Bitter gives this services -- I had eather go mad then experient pleasure, which is an entropycon sentiment.

[†] Dr. Kufield, who generally manages to introduce some blander into every page, has apolled this reparter, by giving it as a reply to the policy of a lad team. Yet the language of Diogenes Laurius is very explicit.—Bibbi or feature by N. St.

Disserver of Sisope is generally remembered as the representative of Cynicism; probably because more ancedotes of his life have descended to us. He was the son of a banker at Smoot, who was convicted of debasing the coin; an office in which the sun was also supposed to have been implicated. Diogenies find to Athens. From the brights of splendour and extravagance, he found himself reduced to squalld powerty. The magnificence of powerty, which Antisthence proclaimed," attracted him. Poor, he was sends to embrace the philosophy of poverty; an outcast, he was ready to isolate himself from society; branded with diagrace, he was ready to shelter himself under a philosophy which branded all society. Having in his own person experienced how little wealth and leavery can do for the happiness of man, he was the more inclined to try the converse; having experienced how wealth prompts to vice, and how desires generate desires, he was willing to try the efficiery of poverty mil variac. He went to Amisthenes; was refund. He continued to offer himself to the Cynic as a scholar; the Cynic raised his knotty staff, and threatened to strike him if he did not depart, Strike !' replied Diogenes; 'you will not find a stick fund enough to conquer my persecurance.' Antisthenes, overcome, accepted him as a punil.

To live a life of virtue was henceforward his role aim. That virtue was Cynicism. It consisted in the complete remarkation of all luxury - the subjugation of all sensual desires. It was a war carried on by the Mind against the Body. As with the Ascetics of a later day, the basis of a pure life was thought to be the annihilation of the Body; the nearer any one approached to such a miciale, the acarer he was to the ideal of virtue. The Body was vile, illthy, degraded, and degrading; it was the curse of man; it was the close upon the free development of Mond; it was wrestled with, hat-d, and despised. This beautiful Body, so richly endowed for enjoy-

ment, was regarded as the 'sink of all iniquity."

Accordingly, Diogenes limited his desires to necessities. He ato little; and what he are was of the coarsest. He tried to live upon raw meat and unboiled regetables; but failed. His dress consisted udely of a clock; when he asked Antisthenes for a shirt, he was told to fold his clock in two; he did so. A wallet and a huge stick completed his accontrements. Seeing a little boy druking water out of his scooped hand, he threw away his cup, declaring it super-

^{*} See the Bargant of Xenophon-

fluors. He slept under the marble perticors of the buildings, or in his celebrated Tub, which was his place of residence. He took his meals in public. In public by performed all those actions which decease has constrained to privacy. Decease of every kind he studiously entraged. It was a part of his system to do so. Everys thing, not in itself improper, ought, he said, to be performed publicly. Resides, he was wont to amony people with indecent gestures; had he a philosophical reason for that also?

Doubts have been expressed respecting his Tub, which, it is thought, was only an occasional residence, and used by him as expressive of his contempt for luxury. We incline, however, to the tradition. It is in keeping with all we know of the man; and that a Tub could suffice for a domicile we may guess from Aristophenes.**

It is not difficult to imagine the effect created by the Cynies in the gay, becomes city of Athens. There the climate, no less than the peccaling numeric, incited every one to enjoyment. The Cynies told them that enjoyment was unworthy of men; that there were higher and purer things for man to seek. To the polished elegance of Athenian numers the Cynics opposed the most brund coarseness they could assume. To the friendly flatteries of contensation they opposed the bitterest jungencies of malevolent frankness. They despised all men; and told them so.

Now, although we cannot but regard Cynicism as a very prepaterous disctrine—as a feeble solution of the great problem of marals, and not a very amiable feebleness—we admit that it required some great qualities in its upholders. It required a great rule energy; a functival logicality of mind; a power over self,—narrow a may be, but still a power. These qualities are not common qualties, and therefore they command respect. Any deviation from the beaten path implies a certain resolution; a steady and consideral deviation implies force. All men respect force. The power of subjugating ordinary desires to one ermote but calculated red, always impresses men with a sense of unusual power. Few are aware that to regarde desires is more difficult than to religious them—requires greater power of usual, greater will, greater costancy. Yes every one knows that abstinence is emire than ten-

^{*} Knights, 703: the people are there spiden of as having been found to live, during the war, in "pigeon-holes and corners of tarrets:" yamples of magables; unless, indeed, this is parely a Metaphoreal expression.

persurer on the same principle, it is easier to be a Cynic than a wise and virtuous Epicurean.

That which prevents our feeling the respect for the Couics which the ancients seem to have felt, and which, indeed, some portions of the Cynical doctrine would otherwise induce us to feel, is the studious and micalled-for outrages on common decency and humanity which Diogenes, especially, perpetrated. All the anecdotes that have come down to us seem to reveal a smedling and malevolent spirit, worshiping Virtue only because it was opposed to the vices of contemperaries; taking a pride in poverty and simplicity only because others sought wealth and luxury. It may be well to raise an carnest protest against the vices of one's age; but it is not well to bring virtue into discredit by the manner of the protest. Doubtless the Athenians needed reproof and reformation, and some exaggeration on the opposite side might have been allowed to the re-Horners. But Diogenes was so feeble in doctrine, so bental in mouner, that we doubt whether the debanchery of the first profigate in that profligate city were more reperhensible than the debanchery of pride which disgraced the Cynic. The whole character of the man is exhibited in one specdote. Plato had given a splendid entertainment to some friends. Diogenes entered, unhidden, and stamping on the rich carpets, said, 'Thus I trample on the pride of Plato; whereupon Plato almorably replied, 'With greater pride, O Diogenes,"

Diogenes, doubtless, practised great abstinence. He made a virtue of his accessity; and, being poor, resolved to be ostentationaly poor. The ostentation, being novel, was mistaken for something greater than it was; being in contradiction to the universal tendesey of his contemporaries, it was supposed to spring from higher motives. There are men who bear poverty neckly; there are men who look upon wealth without envy, certain that wealth does not give happiness; there are men whose sculs are so fixed on higher things as atterly to disregard the pemps and shows of the world; but none of those densite wealth, they disregard it; none of those dirplay their feelings, they are content to act upon them. The virtue which is loud, noisy, estentations, and self-affirmative, looks very like an obtrusive egoism. And this was the virtue of the Cymes. Pretending to reform mankind, it began by blasphening hummity; pretending to correct the effentioneies of the age, it studiously outraged all the decencies of life. Eluding the real difficulty of the problem, it pretended to solve it by madushed insolence.

In his old-age Diogenes was taken captive by pirates, who carried bim to Crete, and exposed him for sale as a slave. On being asked what he could do, he replied, "Govern men sed me, therefore, to one who wants a moster.' Xeniades, a resulting Corinilian. struck with this reply, purchosed him, and, on returning to Coroth gave him his liberty and consigned his children to his education. The children were taught to be Cymes, much to their own satisfaction. It was during this period that his world-remouned interview with Alexander took place. The prince, surprised at not seeing Diogenes joining the crowd of his flatterers, went to see him. He found the Cruic sitting in his tab, looking in the sun. I am Alexander the Great, said he. 'I am Diogenes the Crain, was the reply. Alexander then asked him if there was anything by could do for him. 'Yes, stand uside from between me and the sma.' Surprised at such indifference to princely forour-an indifference so strikingly contrasted with everything he could hithertohave witnessed-he exclaimed. Were I not Alexander, I would be Diogenes! One day, being brought before the King, and being asked who he was, Diogenes replied, 'A say on your expidity;' language, the boldness of which must have gained him universal admiration, because implying great singularity as well as force af character.

Singularity and Insolence may be regarded as his grand characteristics. Both of these are exemplified in the associate of his lighting a lump in the daytime, and peering about the streets of cornectly seeking something; being asked what he neight, he replied, 'A Man.' The point of this story is lost in the word presion, which makes him seek 'an honest man.' The words in largeins are simply, diefpower for \$\tilde{a} = 'I \text{ seek a man.'}\$ Diagram of not seek honesty; he wanted to find a Man, in whom honesty would be included with many other qualities. It was his constant represent to his contemporaries, that they had no manhood. He said he had never seen men; at Sparts he had seen challen; at Athen women. One day he called out, 'Approach, all near!' When som approached, he beat them back with his club, saying, 'I miled for men; ye are excrements.'

Thus he lived till his ninetisth year, bitter, brutal, oscentation and abstemious; disgracing the title of 'The Bog' (for a dog his affection, gratitude, sympathy, and caressing manners), yet gosting over his measured virtue as a cur growts over his meaties bust, for ever smarling and snapping without occasion, an object of seiversal attention, and, from many quarters, of unfeigned admiration.

One day his friends went to see him. On arriving at the portice under which he was went to sleep, they found him stall lying on the ground wrapped in his cloak. He seemed to sleep. They pushed under the folio of his cloak: he was dead."

The Doctrino of the Cynics may be briefly expounded. Antiathenes, as the frisciple of Gorgias, was imbaced with the sophistical
principles respecting Science; principles which his acquaintance
with Socrates did not alter. He maintained that Science was impossible. He utterly rejected the Socratic notion of Definitions.
He said that a Definition was nothing but a series of words (Aégus
pasquis, 'n long discourse'); for which Anstole calls him an ignorange, 'To the Socratic notion of a Definition, as including the
casence of a thing, he opposed the Sophistic notion of a Definition,
as expressing a purely subjective relation. You can only express
qualities, not essences; you can call a thing silver, but you cannot
say in what it consists. Your definition is only seried; hence the
first step in education should be the study of words.;

What was the consequence of this scepticism? The consequence was, that the Cysics massered arguments by facts. When some one was arguing in support of Zeros of Elea's notion respecting the impossibility of movement, Diogenes rose and walked. Definitions might prove that there was no motion; but definitions were only verbal, and could be measured by facts.

This refoge found in common strue against the assaults of logic, combled the Cynics to shape a doctrine of morals which had some certain basis. As they answered arguments by facts, so they made actions take the place of precepts. Instead of speculating about virtue, they cudeasoured to be virtuous. Socrates had brought philosophy from the clouds, the Cynics emicaroured to bring it into shilly practice. Their personal dispositions gave the peculiar colouring to their doctrine, as that of Aristippus had done to the Cyrcusic.

^{*} It was thought that he had contributed smode by holding his breath,—a physical suppossibility. Other versions of the class of his death were current in antiquity; one of them seems consistent with his character; it makes has die in consequence of devouring a next's foot raw.

^{+ &#}x27;Amaideures. - Metinal, vis. 3.

² Arrian, Epiciel., Disc. i. 17, spoted in Ritter and Preller, Hist. Philos. Grace-Romann or finition locis contents (Hamburg, 1838), p. 174.

SIXTH EPOCH.

COMPLETE ADOPTION AND APPLICATION OF THE SOCRATIC METHOD.—PLATO.

§ L. LUPE OF PLATO.

PERHAPS of all ancient writers, Plato's name is the best known. Homer himself is unknown to many who have some dire totion of Plato as the originator of the so-called Platonic lose. There
is a great and wide-spread interest about the Gracian sage. The
young and romantic have strange, romantic ideas of him. 'The
general reader,' especially if a dabbler in fishionable philosophy, or
rather in the philosophy corrent in fishionable movels, has a very
exalted notion of him as the 'great Idealist.' The theological
reader regards him with affection, as the stout and eloquent upholder of the doctrine of the immateriality and immortality of the
soul. The literary critic often regards him as the type of metaphysical eloquence, and classes with him every vapoury, myetical,
metaphorical writer of 'portical philosophy.'

Now, except that of the theologian, these notions, derived at second-band, are all false. It would be idle to inquire how such extravagant opinions came into circulation. Enough for as that they are false. Plato was anything but 'dreamy;' anything but 'an Idealist,' as that phrase is usually understood. He was an instructed dialecticism, a severe and abstract thinker, and a great quibbler. His metaphysics are of a nature to frighten away all but the most determined students, so abstract and so subtle are they. His morals and politics, so far from having any remantic tings, are the se plus uttra of logical severity; hard, uncompromising, and above humanity. In a word, Plato the man was almost completely absorbed in Plato the Dialectician; he had learned to look upon human passion as a disease, and human pleasure as a frivolity. The only thing worth living for was truth. Dialectics was the noblest exercise of humanity.

Even the notions respecting his style are erroneous. It is not

the 'poetical' metaphorical style usually asserted. It has numistakable benuties, but not the beauties popularly attributed to it. Its immense power is dramatic power. The best dialogues are mimitable scenes of councily. Character, lumter, irony, and mimation are there, but scarcely any imagery, and that seldom beautiful.* His object was to refute or to convince; his illustrations are therefore homely. When fit occasion arrives he can be eloquent and familiar. He elothes some myths in language of splendid beauty; and there are many felicitous passages scattered through the dreary waste of dialoctical quibbling and obscurity. These passages have been quoted by various writers; hence readers have supposed that Plato always wrote in such strams. But very fine passages are also to be found in Aristotle, who is nevertheless a repulsive writer on the whole.

In truth, Plato is a very difficult, and, as far as regards matter, somewhat tedious writer; this is the reason of his being so little read; for we must not be deceived by the many editions. He is often mentioned and often quoted at second-hand; but he is rarely read, except by prefessed scholars and critics. Men of culture usually attack a dialogue or two out of curiosity. Their curiosity seldem inspirits them to further progress. The difficulty of mastering the ideas, and their unsatisfactory asture when mastered, are barriers to any general acquaintance with Plato. But those who persevere believe themselves repaid; the journey has been difficult, but it was worth performing.

Aristocles, surnamed Plate (the broad-browed),† was the sen of Ariston and Perictione, was born at Athens or Ægina, Ot. 87.3, on the 7th Thargelion (about the middle of May, s. c. 430). His

^{*} Even upon abstract subjects, whether moral metaphysical or mathematical the harpange of Plate is clear at the running stream; and in simplicity and sweetness vice with the hamble violet which perfumes the vals.'—Dv. Englold, Niet. of Phil. it. 221. Whenever you meet with such trush as this, he dahlous that the writer of it over road Plate. Aristotle capitally describes Plate's style as 'a middle species of diction between some and prose.' It has rhythm rather than imagery.

[†] Some writers incline to the opinion that "Plate" was the spithet of hread-browed; others of broad-shouldered; others, again, that it was expressive of the broadth of his myle. This hast is abound. The author of the strucke Plate in the Penny Cycloperdie pronounces all the above explanations to be "idle, as the same of Plate was of common occurrence among the Athenians of that time." But surely Aristocles was not endowed with this surmance of Plate without cause? Unless he derived the name from a relation, he must have derived it from one of the above causes.

childhood and youth consequently synchronize with the Pelopusnesian war, the most active and brilliant period of Greeian thought and action. His binesge was illustrious: on the maternal side he was connected with Solon.

So great a same could not a scape becoming the moleus of many fables, and we find the later historians gravely repeating various mirarulous events connected with him. He was said to be the child of Apollo, his mother a virgin. Ariston, though betrothed to Perictions, delayed his marriage because Apollo had appeared to him in a dream, and told him that she was with child.

Plato's education was excellent; and in gymmatics he was sufficiently skilled to centend at the Pythian and Isthmian games. Like a true Greek, he attached extreme importance to gymmatics, as doing for the body what dialectics did for the mind; and, like a true Greek, he did not suffer these corporeal exercises to absorb all his time and attention; poetry, music, and rhetoric were assistantly enlitisated, and with some success. He wrote an epic poem, besides some tragedies, difflyrambies, lyries, and epigrams. The epic he is said to have burned in a fit of despair on comparing it with Horses. The tragedies he burned on becoming acquainted with Socrates. The epigrams have been partially preserved. One of them is very beautiful;—

Merijas circilpis, derip ijder dile perdjete Oljania, ily makkide liganese di ne Diina.

"Then guzest on the stars, my Life! Ah! gially would I be. You starry thirs, with themseld eyes, that I neight guze on thee?"

His studies of portry were mingled with those of philosophy, which he must have cultivated early; for we know that he was only twenty when he first went to Socrates, and we also know that he had been tought by Craryles before he know Socrates. Early he must have felt

A presence that disturbed him with the joy Of elevated thoughts; a sense sublime Of something he more deeply interfaced, Whose dwelling is the light of setting sum, And the round occurs, and the bring sir. And the blue sky, said in the usual of sum; A motion and a spirit that impels All thinking things, all objects of all thought, And rode through all thangs.

A deep and meditative spirit led him to question Nature in let secret haunts. The somber philosophy of Heraclitus suited well with his reclameholy youth. Scepticism, which was the fever of that age, had seized on Plato as on all the rest. This scepticism, together with an imperious craving for belief which struggled with the scepticism, found breathing-room in the doctrines of Socrates; and the young scholar learned that without impagaing the justice of his doubts, he could escape them by seeking Truth elsewhere.

He remained with Secretes ton years, and was separated from loss only by death. He attended his beloved master during the trial; undertook to plead his cause; indeed, began a speech which the violence of the judges would not allow him to continue; and present his master to accept a sum of money sofficient to purchase but life.

On the death of Socrates he went to Megara to visit Euclid, as we mentioned before. From thence he proceeded to Cyrene, where he was instructed in mathematics by Theodorus, whom he had known in Athens, if we may could the Theodorus, where Theodorus is represented discoursing with Socrates. From Cyrene he went to Egypt, in company, it is said, with Euripides. There is very little authority for this visit, and that Euripides was his companion is not very probable, because Europides had been dead some years. The influence of Egypt on Plato has certainly been exaggerated. There is no trace, in his works, of Egyptian research. 'All he tells us of Egypt indicates at most a very scanty acquaintance with the subject; and although he praises the industry of the priests, his estimate of their scientific attanaments is far from favourable.'

In these travels the broad-browed meditative man greatly enlarged the Sociatio doctrine, and indeed introduced natagoristic elements. But he strictly preserved the Sociatic Method. Whilst studious youth,' says Valerius Maximus, 'were crowding to Athens from every quarter in search of Plato for their master, that philosopher was wandering along the winding banks of the Nile, or the east plans of a barbarous country, himself a disciple to the old men of Egypt.'

He returned at last, and eager acholars flocked around him. With a mind righly stored by foreign trust and constant meditation, he began to comulate his beloved master, and devote himself to teaching. Take Socrates, he taught gratuitously. The Academia, a public garden in the neighbourhood of Athens, was the favourite resort of Plato, and gase its name to the select which he founded.

^{*} Hitter, ii. 145;

This garden was planted with lofty plane-trees, and afterned with temples and statues; a gentle stream rolled through it, with

"A sound as of a hidden brook
In the leafy mouth of June,
Which to the element woods all night
Singeth a trace time."

It was a delicious retreat, 'for contemplation framed.' The longing thoughts of posterity have often hovered round it as the centre of myriad associations. Poets have sung of it. Philosophers have sighed for it.

> See there the clare grove of Academe, Plate's noticement, where the Attir bird Thrills her thick-worked notes the summer long.

In such a spot, where the sound

*Of bees industrious marrier off taylor To studious arming.

one would imagine none but the Graces could enter; and coupling this with the poetical beauties of Plato's Dialogues, people have supposed that the lessons in the Academy were magnificent outbursts of eloquence and imagery upon philosophical subjects.

Nothing can be further from the truth. The lectures were hard exercises of the thinking faculty, and demanded great power of continued abstraction. Whatever graces might have adorsed Plato's compositions, his lectures were not literary, but dislectical carriers.

Ritter thinks differently. 'His school was less a school of hardy deeds for all, thun of polished enlaure for the higher classes, who had no other object than to enhance the enjoyment of their prinleges and wealth." Does this mean that Pisto did not took Stoicism? If so, it is a truism, if not, a falsism; since what has Dialectics to do with 'hardy deeds'? We are then informed that it was "a school of polished culture for the higher classes;" a next assertion, and a questionable one. The 'higher classes' principally frequented the Sophists; busides, Plato's lectures were gratuitors, and every free citizen might attend them, on certain conditions There were no aristocratical exclusives in Athens; there were at 'polished circles,' with a culture differing from that of the other free citizens. When Ritter says that their object was 'to exhause the enjoyment of their privileges and wealth,' we are at a loss to conceive his menning, because we do not see how they were to an this by listening to speculations on essences and archetypal Iden; the more so as Ritter himself tells in Plato's views of justice and honour were 'wholly impracticable in the corrupt state of the

Athenian constitution; and all empirical knowledge, such as is indispensable to a politician, was in his view contemptible.*

Whatever their purpose, the Lextures were severe trials to the capacities of students; and their purely argumentative nature may have originated the story respecting the inscription over the door of his Academy, "Let sow but Gramstriciaus enter here;" a story which is very widely circulated, although wholly without good evidence. The story is in direct contradiction to Plato's views of Gramstry, which he excludes from Philosophy, because it assumes its axious without proof, and because it occupies a middle position between Opinson and Philosophy, more occurate than the one, but less certain than the other.

In his fortieth year Plato made his first visit to Sicily. It was
then he became requainted with Dionysius I., the Tyrant of Syracuse. Dion, his brother-in-law, and Dionysius H. With Dionysius I.
he seen came to a rupture, owing to his political opinions; and
he so offended the Tyrant, that his life was threatened. Dion howmer interceded for hour, and the Tyrant spared his life, but commissioned Pollis, the Spurtan Ambrosales, in whose ship Plato was
to return, to sell hou as a slave. He was sold accordingly. Annicerts of Cyrene bought him, and immediately set him free. On his
return to Athens, Dionysius wrote, hoping that he would not speak
ill of him. Plato contemptoonsly replied, that he had not 'Jessure
to think of Dionysius.'

Plato's second visit to Syracuse was after the death of Dienysius L, and with the hope of obtaining from Dionysius II, the retablish-

^{*} Some countenance seems given to the ordinary action of Plate's Lectures by the tradition that even some somen attended them. We confess this statement is to us suspicious, especially us it is also said that one woman disguised herself in man's electure. Disguise, then, was recovery. The fact, however, if correct, would only show the high cultivation of the between for such the women must have been); and when we think of such vomen as Arguses, we see no remon for expaning they could not follow the abstraces because.

[†] Mr. Thompson says the only statherstics for the intersprise, are Philopopus, in his Commentary on Aristotle, De Anisol, and a verse in the Children of Tosters. See Notes to Better's Lectures, it. 70.

I have been smalle to receive a passage in the Republic whom Plate expresses himself as in the text, but I found that, which approximates to it, although not the passage I had in my mind. See Republic, interacts the end,
beginning, Marthen, 5th, a.e.h. . . . and ending, belower of entries on fourie
tip the properpasse et and the time receives if m. dAC of rode, for parents to follow
the six yeaperpasses of and the time.

ment of a colony according to have framed by himself. The colony was promised; but never granted. Pinto incurred the Tyrant's empicious of having been concerned in Dion's conspiracy; but he was allowed to return beam in peace.

He paid a third visit; and this time solely to endowour to reencile Dioxysius with his uncle Dion. Finding his efforts fruitless,

and perhaps dangerous, he returned.

In the calm retirement of the Academy, Plato passed the remainter of his days. Lecturing and writing were his chief seem, patients. The composition of those dialogues which have been the admiration of posterity, was the cheering solar of his life topecially of his declining years. He died at the advanced age of eighty-three.

Plato was intensely metancholy. That great broad brow, which gave him his surname, was wrinkled and sember. Those brawns shoulders were bent with thought, as only those of thinkers are bent. A smile was the atmost that over played over his fips; he never laughed. 'As sail as Plato,' became a plante with the contiducation. He had many admirers; scarredy any friends.

In Plato, the thinker predominated over the man. That great expansive intellect had so fixed itself upon the absorbing questions of philosophy, that it had scarcely my sympathy left for other matters. Hence his constant reprodution of Poets. Many suppose that the banishment of poets from his Republic was but an induces extension of his logical principles, and that he really loved portry too well to condense it. Plate's opposition to posts was lowerer both deep and constant. He had a feeling not smalled to embrupt for them, because he saw in them some resemblance to the Sephists, in their indifference to truth, and preference for the arts of exprasion. The only poetry Plate over peniscs is moved poetry, which is versided philosophy. His soul panted for Truth. Poets, at the lest, he held to be inspired madmen, ancoascious of what fell from their lips. Let the syader open the fea (it has been translated by Shelley), he will then perceive the cause of poets being bunehed from the Republic. Plate had a repugnance to poetry, partly because it was the dangerous rival of philosophy, partly became he had a contempt for physene." It is true that he frequently quotes Hamet, and, towards the close of the Republic, some magazings of laving harshly treated the favourite of his youth, escape him; but he

^{*} Comp. Phil-fee, p. 131.

quickly withdraws them, and owns that Truth alone should be man's object.

There is something unpleasant in Plato's character, which finds its echo in his works. He was a great, but not an animble worn; his works are great, but lamentably deficient. His ethics are the ethics of a logician, not of a large-souled man, furnish with and sympathrong with the complexities of life; they are suited only to an impossible state of humanity.

In bringing forward this ries of Plato's character, we shall doubtless shock usury precenceptions. The Plato we have drawn, if not so remaintie as that usually drawn is the only one which seems to its consumant with what the ancient writers transmit. Let us one object to our assertion of his constant melancholy, on the ground of the comic talent displayed in his Diricguez. The comic writers are not the gayest men; even Molière, whose histories is so genul, overflowing, and apparently spontaneous, was one of the austerest. Comedy often springs from the deepest melancholy, in if in sublem rebound: Moreover, in Plato's comedy there is almost always some under-current of bitterness: it is Irony, not Joyomness.

§ II. Prato's Westings - Their Character, Object, and Acthermoty.

Before attempting an exposition of Plate's dectrines, it may be useful to any something respecting the character and authenticity of his Dialogues. Modern criticism, which spaces nothing, has not left them untouched. Dialogues, the authenticity of which had never been questioned in antiquity, have been rejected by modern critics upon arbitrary grounds.

We cannot enter here into the details; we have no space; and, had we space, we might be excused from combating the individual positions, when we refine to accept as valid the fundamental assumptions on which they repose. Internal evidence is generally deceptive; but the sort of internal evidence supposed to be afferded by comparative inferiority in artistic execution, is never free from great suspicion. Some of Pinto's dialogues not being found equal to the exalted idea which his great works have led men to entertain, are forthwith declared to be sparious. But what writer is at all times equal to the highest of his own fights? What author has produced nothing but chefe-d'overe? Are there not times when the most brilliant men are doll, when the richest style is meagre,

when the completest style is loose? The same subjects will not always call forth the same excellence; how unlikely then that various subjects abould be treated with uniform power? The Theoger could hardly upual the Theoreteius: the Enthydenous must be inferior to the Garyton. No one thinks of disputing Shakspeare's claim to the Merry Wices of Whadoo, because it is immeasurably inferior to Theofith Night, which, in its turn, is inferior to Otherly.

Besides the stalogues rejected on account of inferior art, there are others rejected on account of immusture or contradictory spinious. But this ground is as untenable as the former. No our has yet been able to settle definitively setal was Plato's philosophy; yet opinious are said to be unworthy of that mortifed philosophy! A preconceived notion of Plato's having been a pure Socratic tiers. But there is abundant evidence to show that Plato was not a mere exponent of Socratic opinious. Moreover, in a long life a man's opinious undergo many modifications; and Plato was no exception to the rule. He contradicts himself consumity. He does so in works the authenticity of which no one has questioned; and we are not to be surprised if we find him doing so in others.

It is somewhat amoning to observe the confidence of modern crticism on this point.* An Ast, or a Socher, or a Schleiermacher, rejects, on the most fallacious assumptions, the authenticity of dislogues quoted by Aristotle as the works of his master. Plato. Now really, to suppose that Aristotle could be mistaken on each a matter is a great extension of the conjectural privilege; but to make this supposition on no better ground them that of internal evidence, derived from inferiority of execution, or variation in opinion in the norks themselves, seems truly proposterous.

The amients themselves admitted the Epissonie, the Erysta, the Ariochus, and the Second Alcibiades, to be sporious. The Epistos are also now generally regarded as forgories. With these exceptors, we really see no reason for rejecting any of the dialogues. The Theores and the Hippins Major are certainly as much in Plan's manner as Measure for Measure is in Shakapener's; indeed, the

[&]quot; According as the felifestics line directed itself to this or that separate his observator, the opinion raised as to the presiments or falsity of his rocks have theretained; so that we might softly say, the more his writings have been extended, the core has the document of their authoritiesty become complicated."

— 20 hav.

Hyprics occurs to us a remarkably happy specimen of his dramatic talent.

But whether all the Dialogues were the production of Plate or not, they equally serve the purpose of this history, since no one denies them to be Platonic. We may therefore have this question, and proceed to others.

Do the Dialogues contain the real opinions of Philo? This question has three motives. Let. Philo binaself never speaks in propriet percent, unless indeed the Athenian in the Lowe be accepted as representing has; a supposition in which we are inclined to concur-2ndly. From certain passages in the Physicas and the Epistier, it would appear that Plato had a contempt for written opinions, as inefficient for instruction. Stelly, On the testimony of a phrase in Aristotle, it is supposed that Plato, like Pythagoras, had exoteric and esoteric equisions; the former being, of course, those set forth in his Dialogues.

We will inderwor to answer these doubts. The first is of very little importance; the second of greater; the last of very great importance. That Plato adopts the doubtie form, and preserves it, is true; but this form, which quite bulles us with Shakspeare, bulles us with no one rise. It is easy to divine the opinions of Aristophanes, Molière, or Schiller. It is still more easy to divine the opinions of Plato, because, unlike the dramaticts, he adoes his dislogue solely with a view to the illustration of his opinions. Besides, it is reasonable to suppose that "Socrates," in the Dialogues, represents Platonic opinions seen through the season of Socrates. And, whatever the variations may be with respect to subordinate points, we find but one Method in all the Dialogues, but one consepton of science; in a word, we find an unmistakable teadency, which we prenounce to be Platonic.

Respecting his opinion on the insufficiency of books to convey instruction, we may first quote what "Socrates" says on the subject in the Physics.—

Writing is something like pointing: the creatures of the latter art look very like living beings; but, if you ask them a question, they preserve a soleum silence. Written discourses do the same you would fancy, by what they say, that they had some sense in them; but, if you wish to learn, and therefore interrogate them, they have only their first answer to return to all questions. And when the discourse is once written, it passes from hand to hand, naming all sorts of persons, those who can understand it, and those

who cannot. It is not able to tell its story to those only to wheen it is suitable; and, when it is unjustly criticized, it always needs its author to assist it, for it cannot defend itself. There is another sort of discourse, which is far better and more potent than this,-What is it? That which is written scientifically in the learner's mind. This is expalife of defending itself, and it can speak itself, or be silent, as it was fit.-You mean the real and living discourse of the person who understands the subject; of which discourse the written one may be called the picture? Precisely.-Now, think you that a scroible husbandman would take used which he valued, and wishing to produce a harvest, would senously, after the soumer had begin, scatter it in the gardens of Adoms," for the pleasure of seeing it spring up and look green in a week? Or do you not rather think that he might indeed do this for sport and ammement; but, when his purpose was serious, would employ the art of agriculture, and, sowing the seed at the proper time, be content to gather in his harvest in the eighth month? The last, undoubtedly .- And do you think that he who possesses the knowledge of what is just, and noble, and good, will deal less productly with his seeds than the hashmdman with his? Certainly not,-He will not, then, set about sowing them with a pen and a black liquid; or (so drop the nurtaphor) scattering these truths by means of discourses, which connot defend themselves against attack, and which are inespable of adequately expounding the truth. No doubt he will, for the seleof sport, occasionally scatter some of the seeds in this manner, and will then treasure up sacusreada for Almedy, in case he should full into the forresinhess of old-age, and for all others who follow in the same track; and he will be pleased when he sees the blade growing up grees.'

Now, this remarkable passage is clearly biographical. It is the justification of Societies's philosophical carrier. But it must not be too rigorously applied to Plato, whose voluntiaces writings contradict at a nor must we suppose that those writings were designed only for numerical, or as memoranda for his pupils. The main idea of this passage is one which few persons would feel disposed to question. We see all aware that books tabour under very serious deficiencies; they cannot replace onal instruction. The frequent misappreheasions of an unchor's arguing world in a great measure be obtained.

I Phadim, p. 98.

⁴ The gardens of Adams, a periphrana for mignomitie-house.

if we had him by our side to intervogate him. And oral instruction has the further advantage of not affeoring the reader's mind to be so pursive us it is with a book : the teacher by his questions excites the activity of the pupil. All this may reasonably be conceded as Plate's opinion, without at all affecting the serious purpose of his writings. Plate thought that conversation was more instructive thus reading a but he knew that reading was also instructive, and he wrote i to obviate as much as possible the accessary inconveniences of written discourse, he three all his works into the form of dialogue. Hence the endless repetitions, divisions, and illustrations of positions almost self-evident. The reader is fatigued by them; but, like Addison's tediousness, they have a design in them; that design is, by insitating conversation, to leave no position meaplaned. As a book enmost he interrogented, Pinto makes the book anticipate interregations. The very pains he takes to be tedious, the srry minuteness of his details, is sufficient to rescue his works from the imputation of being more augmentumia. He was too great an artist to have sacrificed has art to anything but his convictions, That he did sarrifice the general effect to his scrupulous dialectics, no one can doubt; and we believe that he did so for the sake of derply impressing on the reader's mand the real force of his Method. Had the critics recognized Plato's real drift, we believe they would have spared much of their consum, and hesitated before pecunianring against the genuineness of cortain dialogues.

Connected with Plate's expressions respecting the imperfection of written works, there is the passage in Aristotle, referring to the Synapa Soyuara, or 'unwritten opinious,' which is supposed to indicate an esoteric doctrine. If Aristotle's words do bear that menuing, then is the opinion consistent and valid, which regards the exoteric works—the Dialogues—as more discretisements. Let us examine it.

Aristotle says that Plato, in the Thomas, unintained space and matter to be the same, but that, in what are called the investion opinious (is voir Asymptotic Symptotic Symptotic), he considered space and place (via viewe assisting gispon) to be the same. * From such a

^{*} Phys. is c. 2, p. 52. Rister, who refers to but does not cite the passage; grow to to understand that, in these are risten opinions, "nearly was explained differently, or, at least, now definitely than in the Dubliques." But no each constraint can be drawn from Arimotle. There is no prester difference alluded to in the passage than may frequently be found between one dialogue and mother. If the written (published) opinions differ, mostly their uniquities.

passage it is serely somewhat grateitous to conclude that Plate had an moteric doctrine. The dynadic Edgarra probably meant his factures, or as Ritter suggests, notes taken from the bectures by his scholars. At any rate there is no ground for supposing them to have been excharical opinious; the more so as Aristotle, his most illustrious pupil, never speaks of any such distinct doctrine, but draws his statements of Plate's views from published norks.

We are consinced that the Dialogues contain the real opinions of Plato, in is far as Plato ventured to express them. We make this reservation became it is portry generally known that in the Sormtic philosophy inflividual opinious were not of so much importance as Method. It would perhaps be better to say, therefore, that the Dialogues exhibit Plato's real Method and tendencies. Certain it is that the Method and tendencies can only rightly be appreciated after a survey of all the Dialogues. The succents, we are told by Sexua Empiricus," were divided amongst themselves us to whether Plato was a sceptic or a dogmanist. Nor was the dispute irrational | lor, as some of the Dialogues are expository and dognatical, and others are more exercises of the dialectical method-more contain in which nothing is definitively settled-any one laxing studied only our class of these Dialogues would think Plato either a sceptic or a degreates, according to the nature of those which he had read. Thus Cievro, an ardent admirer, says, 'Plato affirms nothing; but, after producing many arguments, and examining a question on every side, howes it undetermined. This is true of such dialogues as the Theorielas, or the Hippins Major; but untrue of the Pheele, Timmer, Linea, etc.

This leads us to a consideration of the various attempts at classifying the Dialogues. That some sort of classification should be adopted is admitted by all; but no two persons seem to agree as to the precise arrangement. Any attempt at chronological arrangement must must inevitably fail. Certain dialogues can be satisfactorly shown to have been written subsequently to some others; but any regular succession is beyond our ingeneity. We may be premy size that the Phendrar was the earliest, or one of the earliest, and

may be allowed also to differ from the written? If the Republic differs from the Timera, excels the "mounties episted" may differ from the Timera.

[&]quot; Pyrelon. Hypot. i. p. 44.

⁷ See on this point Mr. Thompson's note to Kutler's Lecture on Hist of Assemb Phil. p. p. 44.

the Leses the latest. We may be sure that the Republic was carlier than the Lane, because the latter is a maturer size of politics. But when the Republic was written, buffles conjecture. It is usually placed with the Tissess and the Lane; that is to say, with the last products of its author. But we denote to this on several accounts. The differences of style and of ideas observable in the Republic and the Lane, imply considerable distance between the periods of composition. Besides, a man not writing for his bread does not so soon resume a subject which he has already treated with great foliacse. Plate had attend his opinions in the Republic. He must have waited till new ideas were developed, before he could be tempted again to write; for observe, both these dialogues are expository and degreatical: they express Plate's opinions; they are not merely dialoctical exercises.

It strikes us also that there is but one safe principle to be applied to the testing of such points. Whenever two works exhibit variations of opinion, we should examine the nature of the variations and sak, which of the two opinions is the later in development—which must have been the earlier?

Let - take an example. In the Regustice (iii, p. 123) he attempts to prove that no one can excel in two arts; that the comic pact cannot be the same as the tragic, the same actor cannot act in tragedy and comedy with success. In the Justieve (p. 289) he has the same idea, though there only mentioned briefly.* In the Symposism, however, Pinto's opinion is directly the reverse; for, in n eelebrated passage, he makes Socrates convince Agathon that the tragic and conic port are the same person. Now, it is not difficult to dreide which is the earlier opinion; in the Beywille it is the logical consequence of his premisses; but in the Spapoisses that opinion is corrected by experience, for in the poets of his own day Plato found both trugedy and comedy united; and as Socrates is made to convince Agathon, we may conclude that the former opinion was not uncommon, and that Plate here makes a retractation. No one will deny that the former opinion is superficial. The distinction between tracedy and contedy is such that it seems to imply a distinct nature

^{*} According to Ritter's principle, this would prove the Beyoldic to be later than the disselvers. He minimizes, and with placebility, that, when a subject which has been developed in one dialogue is briefly assumed in another, the latter is subsequent in composition. (Bitter, vol. it p. 180.) Yet, on this principle the Physics is carrier than the Physics, immuch to the doctrine of reminiscence is developed in the former and alluded to in the latter.

to attain excellence in each. But Euripides, Stakepeare, Barine, Cervantes, Calderon, and many others, confute this scenning by their dramas.

Perhaps a still more conclusive example is that of the 'exertion of Ideas,' so expressly stated in the Republic, and the 'eternity and macrented mature of Ideas,' as expressly stated in the Timesa. So radical a difference in the most important position of his philosophy, would at once separate the epochs at which the two dialogues were composed. And to this may be added the difference in artistic treatment between the Republic and the Timesa. The former, although expository, has much of the vivacity and demantic vigour of the early dialogues. The Tisseus and the Lorer have searedy a trace of art.

Ritter has well observed that "the excellence of the Platonic dialogues, as pieces of art, is twofold; the rare imitative powers exhibited in the dialogue, and the acuteness with which philose plocal natters are dislectically treated. No one will fent that these two qualities have only an outward connection, and consuguardy that they cannot advance equally. With the philosopher the latter is manifestly the more important, whereas the former is of secondary importance. The degree of perfection therefore in any dialogue, as such, affords at most a very uncertain means for the determination of its date; whereas the greatest weight ought to be hid on the dialectical skill." In proportion as the dialectical skill became mature, it is natural to suppose that the dramatic initation was less eared for. In proportion as Plato become settled in his convictions be became auxious solely for their elear exposition. He began life with a love of poetry; but this he soon abundaned far philosophy.

The whole imquiry may seem idle; but until amorthing like a positive arrangement of his works can be made, there will be us and to the mission reptions of his opinions; for it is preporterors to tite passages in support of a doctrine, before latting ascertained the date of the work whence the passages are drawn. You this is the may critics and historians draw up an imaginary outline of Plato's philosophy, and squalfule amongst each other us to who is right. When it is said that Plato held such or such an opinion, it should be distinctly understood at what period of his career he held it, because, in so long a career, and with so many changes of opinion, it is necessary to be precise. For our own part we can scarcely assess a single opinion held by him throughout his works. Even the Scenatic that

of Virtue being identical with Knowledge, consequently of Vice being Ignorance, and therefore involuntary—even this idea he learned in his old-age to regulate, as we see in the Larce (book v. p. 385), where he calls involvinged, no less than ignorance (i) & diagoline if & department, the course of vice. In the same sense (book iv. p. 138), after speaking of anger and pleasure as causes of error, he mays, 'There is a third cause of our findta, and that is ignorance '(rairos dyname ross diagographics siriles). So that here he places ignorance only as a third cause; and by so doing destroys the whole Socratic argument respecting the identity of Virtue and knowledge."

This being the case, it will readily be acknowledged, that to make up a doctrine from passages called here and there, must inevitably lead into error. A consistent doctrine cannot be made out. Indeed it is precitomable whether Plato ever risborated our. Like Socrates, he occupied himself with Method pather than with results; like Socrates, he lead doubts respecting the certainty of knowledge on the higher subjects of thought; like Socrates, he cought Truth, without professing to have found her.

As a chronological arrangement has been impossible, a philosoplical arrangement has frequently been attempted. The most relebrated is that of Schleiermacher, who divides the Dialogues into three classes :- '1st. Elementary disclower, or those which contain the germs of all that follows, -of logic as the instrument of philosophy, and of ideas as its proper object; consequently, of the posihility of the conditions of knowledge; these are the Phedeur, Lyris, Protogoros, Laches, Chormides, Enthyphro, and Parmenides; to which he sulroius, as an appendix, the Apologia, Crita, Ion, Hupsian Misor, Hipperches, Mixos, and Alcibiades II. 2nd, Progressive dielogwe, which treat of the distinction between philosophical and common knowledge in their united application to the two proposed and real sciences, Ethics and Physics: these are the Gorgias, Thesetetur, Menu, Eathydenaur, Cratalier, Sophister, Politicus, Symposism, Phosis, and Philohas; with an apparalis containing the Thouges, Amatores, Meihinles I., Meneroway, Hippins Major, and Clifophon.

^{*} The Mono is a faither confirmation. In it rirtue is shown to be minuscriptule of heing taught; ergo, it is not Knowledge. This would make the Mono one of the latest works. Neither of these contradictions has, to our knowledge, been noticed before. It was our intention to insert a Chapter on the add-contradictions of Pinto, but the space such a Chapter next have occupied, would have been atterly beyond our limits.

3rd. Constructive dialogues, in which the practical is completely united with the speculative; these are the Republic, Tourns, Critical with an appendix containing the Lows and the Epistics." There is considerable ingenuity in this; and it has been adopted by Bekker in his edition. It has however been much criticized, as every such attempt must necessarily be. Van Heusle, in his charming work, has suggested another. He proposes three classes: 1, those wherein the subject-matter relates to the Beautiful; 2, those wherein it relates to the True; 3, those wherein it relates to the Practical. Of the first are those concerning Love, Beauty, and the Soul. Of the second, those concerning Dialoctics, Idans, Method; in which Truth and the mouns of attaining it are sought. Of the third, those concerning justice; i.e. morals and politics. These three classes represent the three phases of the philosophical mind; the desire for Truth, the appreciation of Truth, and the realization of it, in an anplication to learn in life.

There is one great objection to this classification, namely, the impossibility of properly arranging the Dialogues under the separate heads. The Phenium, which Van Heasde believes devoted to Love and Beauty, Schlesermarker has clearly shown to be devoted to Dialectics. So of the rest: Plato mixes up in one dialogue very opposite subjects. Van Heusde is also under the erronsons conrection of Plato's having been only a Socratist till be went to Megara, where he because imbued with the Electic doctrines; and that it was in his maturer upe that he because acquainted with the Pythagorean philosophy.

It may be presumptious to suggest a new classification, yet it is difficult to resist the temptation. It seems to us that the Dialogue may reasonably be dissied into the two classes named by Seatus Empiricus:—Doguntic and Agunistic, or Expository and Polenical. The advantage of this division is its clearness and practicalitity. There will always be something arbitrary in the endeavour in classify the dialogues according to their subject-matter, because they are almost all occupied with more than one subject. Thus the Republic would certainly be classed under the head of Ethics; yet it contains very important discussions on the nature of lumina knowledge, and on the theory of Ideas; and these discussions ought properly to be classed under the head of Metaphysics. Again, the

^{*} Proof Cyclopedia, Art. Plata, p. 236;

⁺ Intia Philosophia Philosophia, L.p. 72.

Phenicus is more than half occupied with discourses about Love; but the real subject of the work is Dialectics.

In the division we propose, such inconveniences are avoided. It is easy to see which dialogues are polemical and which are expository. The Hippins Major and the Tisseus may stand as representatives of each class. In the former no attempt is made to settle the question raised. Somates contents himself with refuting every position of his managemist. In the Tisseus there is no polemic of any sect; all is calmly expository.

A further subdivision might also be made of the agonistic dislogues, into such as are purely polemical and such as by means of polemics enforce ideas. Sometimes Plato only destroys; at other times the destruction is a clearance of the ground, which opens to us a vista of the truth; of this kind is the Theorietas.

We are lowever firmly personded that one distinct purpose ross through all the Dialognes, whatever may be their varieties of form or of opinion; one great and fruitful purpose, which may rightly be called the philosophy of Plato, and which we will now attempt to called it.

§ III. Plato's Matrices.

By some, Plato is regarded as the mere literary exponent of the Socratic doctrines; by others, as the real founder of a new epoch and of a new philosophy. Both of these views appear to us questionable; but on the subject of Plato, errors are so numerous, and we had almost said so inevelable, that no one who rightly appreciates the difficulty of ascertaining the truth, will be disposed to dogmatice. Although we claim the right of enforcing our opinions a right purchased with no contemptible amount of labour in the impairy—we would be distinctly understood to place no very great confidence in their radidity. After this preface, we trust, we may speak openly without incurring the charge of dogmentism, when simply recording the results of study.*

[•] It has been a principle with us throughout, to abstain from all innecessary references. The absence of such references synders it the more needful for as to state that, previous to writing this Section, we renewed our negatiations with Plate by carefully reading off his scools, with the exception of two of the minor ones. (Since the first edition of this work a complete translation of Plate has appeared, so that the English reader has now the means of testing the validity of our conclusions.)

Photo we hold to be outther a simple Socratist, nor the creator of a new philosophy. He was the inheritor of all the wisdom of his age. He fully seized the importance of the Socratic Method; he adopted it, enlarged it. But he also are the importance of those ideas which his professives had so laborated exceptions and the Electrics, of Anaxagoras and Heraelitus. With cast learning and a paissant Method, he created an inference which is not yet totally extinct. But his philosophy was critical, not degratical. He cularged, ameliocated the views of others, introducing little that was new into the philosophy of his age. He was the culminating point of Greek philosophy. In his works all the various and conflicting tendencies of preceding cras were collected under one Method.

That Method was doubtless the Method of Socrates, with some modifications, or rather with some enlargement. Schleiermeher, in a profound and huninous essay on the Worth of Socretar as a Philosopher,* looks upon the service rendered to Philosophy by Socrates as consisting less in the truths sorred of, than in the mode in which truth should be sought. Alltading to this view, John Mill his said, 'This appears to us to be, with some medifications, applicable likewise to Plato. No doubt the disciple probablis mere inquiries and speculations over a more extended surface, and to a much greater depth below the surface, than there is my reason tobelieve the master did. But, though he continually starts now original and valuable ideas, it is seldon that these, when they relate to the results of impury, are stated with an air of conviction, as if they amounted to fixed opinious. But, when the topic under consideration is the proper more of philosophizing-either the moral spirit in which truth should be sought, or the intellectual processes and methods by which it is to be attained; or when the subjectmatter is not any particular scientific principle, but knowledge in the abstract, the differences between knowledge and ignorance, and between knowledge and more opinion-then the views inculcated are definite and esosistent, are always the same, and are put forth with the appearance of cornest and matured belief. Even in treating of other subjects, and even when the opinions advanced have the least semblance of being seriously entertained, the discourse itself has

^{*} Translated by Bulery Thirlevill, in the Philosophul Museum, and reprinted in the English remion of De Wiggers's Life of Socrates.

generally a very strong tendency to illustrate the conception, which does seen to be really entertained, of the nature of some part or other of the process of philosophicing. The inference we would draw is, that on the science of the Investigation of Science, the theory of the pursuit of truth, Plato had not only satisfied himself that his professesses were in error, and lose, but had also adopted definite views of his own; while on all or most other subjects he contented himself with confuting the absurbities of others, pointing out the proper course for inquiry, and the spirit in which it should be conducted, and throwing out a variety of ideas of his own, of the value of which he was not quite certain, and which he left to the appreciation of any subsequent inquirer conspetent to sit in judgment upon them."

We have here to examine what that Method was which Plato constantly pursued. Socrates, as we have shown, relied upon the Imbactive or Analogical Reasoning, and on Definitions, as the two principles of investigation. The incompleteness of these principles we have already pointed out; and Plato himself found it necessary to enlarge them.

Definitions form the basis of all Philosophy. To know a thing you must also know what it is not. In ascertaining the real Definition, Socrates employed his accombine arts (regres passaring), and proceeded inductively. Pinto also used these arts; but he added to them the more efficient processes of Analysis and Synthesis, of generalization and classification."

Analysis, which was first insisted on by Plato as a philosophic process, is the decomposition of the whole into its separate parts; whereby, after examining those parts attentively, the idea of the whole is correctly ascertained. To use Platonic language, Analysis is seeing the One in the Many. Thus, if the subject be Virtue, the general term Virtue must first be decomposed into all its parts, i.e. into all the Virtues; and from a thorough examination of the Virtues a clear idea of Virtue may be attained.

Definitions were to Plato what general or abstract ideas were to later metaphysicians. The individual thing was held to be transitory and phenomenal, the abstract idea was eternal. Only concerning the latter could philosophy occupy itself. But Socrates, although maisting on proper Definitions, had no conception of the classifica-

^{*} Consult Van Hessale, Juine Philosoph, Pfetrator, ii pars in 97, 186.

[†] A good example of his mode of conducting an impary may be seen in
the Gorgins.

tion of those Definitions which must constitute philosophy. Plato, therefore, by the introduction of this process, shifted philosophy from the ground of impairies into now and society to that of Dialecties. What was Dialecties? It was the art of discoursing, i.e. the art of thinking, i.e. logic. Plato uses the word Dialecties, because with loss Thinking was a silent discourse of the soul, and differed from speech only in being silent. In this conception of Philosophy as Dialectics, Plato absorbed the conversational method of Socrates, but gave it a new direction.

How erroneous the notion is which supposes that Plate's ment was exclusively literary, may be guthered from the above brief outline of his Method. He was pre-ammently a severe Dialectician. This is his leading peculiarity; but he has clothed his method in such attractive forms that the means have been mistaken for the end. His great dogma, like that of his master, Socrates, was the necessity of an untiring investigation into general terms for abstract ideas). He did not look on life with the temporary interest. of a passing inhabitant of the world. He looked on it as an immortal soul longing to be released from its earthly prison, and striping to catch by anticipation some faint glimpers of that region of eternal Truth where it would some day rest. The fleeting plansmena of this world he knew were nothing more; but he was too wise to overlook them. Fleeting and imperfect as they were, they were the indications of that eternal Truth for which he lorged, footnerks on the periloss journey, and guides unto the wished-for goal. Long before him wise and meditative men perceived that smsc-knowledge would only be knowledge of phenomena; that everything men call Existence was but a perpetual flex or some thing which, always becoming, never year; that the reports which cur senses made of these things partook of the same feeting and uncertain character. He could not, therefore, put his trust in them; he could not believe that Time was anything more than the waseting image of Eternity.

But he was not a Sceptic. These transitory phenomena were not true existences; but they were images of true existences. Interregate them; classify them; discover what qualities they have in common; discover that which is invariable, necessary, amidstall that is variable, contingent; discover The One in The Many, and you have penetrated the secret of Existence.*

^{*} To refer the reader to particular passages wherein this dectrins is st-

Now, in reducing this Platenic lenguage to a modern formula, what is the thought? The thought is simply this: Things exist as classes and as individuals. These classes are but species of higher classes; e. g. men are individuals of the class Man, and Man is a species of the class Animal. But Philosophy, which is deductive, has nothing to do with individuals; it is occupied solely with classes. General Terms, or abstract ideas, are therefore the materials with which Philosophy works.

These General Terms, Plato said, stood for the only real Existences, the only objects of Plaksophy. And as far as expression is concerned, he would seem to be in perfect accordance with modern thinkers. But we must be cautions how we mistake these coincidences of expression for comendences of doctrine. Plato's philosophy was an inarticulate utterance, curious to the historian, but

valueless as a solution of the problem.

We are here led to the origin of the world-famous dispute of Bralism and Nominalism, which may be summed up in a sentence. The Bealists maintain, that every General Term (or Abstract idea), such as Man, Virtue, etc., has a real and independent existence, quite irrespective of any concrete individual determination, such as Smith, Benevolence, etc. The Nominalists, on the contrary, maintain, that all General Terms are but the creations of the mind, designating no distinct entities, being merely used as works of aggregate conceptions.

In Realism, Plato separated himself from his master Socrates.

On this point we have the indultitable, but latherto little noticed, testimony of Aristotle, who, after speaking of the Socratic Method of Induction and Definition, says:—' But Socrates gave neither to General Terms nor to Definitions a distinct existence.' This is plain enough. Aristotle, in continuation, obtiously speaks of Plato:—' Those who onecoded him gave to these General Terms a

separate existence, and called them Ideas."

pressed, or caplied, would be redless it runs through all his works, and is the only constant deciring to be found there. Purlage the entest passage

where it may be read in Philidea, pp. 275-6.

[&]quot;Mrt. min. 4. Add' depic Suspense of authors of gapter's funcial, sides role (company.—The monthing of this may appear strange. Many have supposed universals to exist acquiredely a but how a separate existence could be given to Definitions may maide the scorner Bealist. We believe the deficulty variables, if we remarkly that the Platmie Definitions and Universals were the same things: Aristotle's phrase is, however, assembles.

Thus are we introduced to Plato's famous Ideal theory; which, although confined and contradictory enough in detail, as is the case with all his special opinions, is clear enough in its general bendency.

& IV. PLATO'S IDEAL THROUGH.

The word Idea has undergone more changes than almost my word in philosophy; and nothing can well be more opposed to the modern sense of the word than the sense affixed to it by Pinto. If we were to say, that Ideas were tantamount to the Sakstanful Forms of the schoolmen, we should run the risk of endearousing to enlighten an observity by an obscurity no less opaque. If we were to say, that the Ideas were tantamount to Universals, the same objection might be raised. If we were to say, that the Ideas were General Terms or Abstract Ideas, we should mislead every Nominalist into the belief that Plato was an "Idealist;" otherwise the last explanation would be pertinent.

It will be better, however, to describe first, and to define afterwards. Plate, seconding to Aristotle, gave to General Terms a fistinet existence, and called these blow. He became a Realist; and asserted, that there was the Abstract Mon no less than the Concrete Men . the latter were Men only in as far as they participated in the Ideal Man. No one will dispute that we have a cocception of a genus-that we do conceive and reason about Man quite indrpendently of Smith or Brown, Peter or Paul. If we have such a conception, whence did we derive it? Our experience has only been of the Smiths and Browns, the Peters and Panis; we have cale known asea. Our senses tell as nothing of Man. Individual chiects only give individual knowledge. A number of stones placed before us will afford us no knowledge, will not enable us to us, These are stones; unless we have previously learned what is the nature of Stone. So, also, we must know the nature of Man, before we can know that Jones and Brown are Men. We do know Man, and we know Men; but our knowledge of the former is distinct from that of the latter, and most have a distinct source; as, at least, thought the Bealists. What is that source? Reflection, and 521155

The Realists fluding The One in The Many,—in other works, finding certain characteristics common to all Men, and not rely common to them but necessary to their being Men,—abstraced these general characteristics from the purificular necidents of infividual men, and out of these characteristics made what they called Universals (what we call genera). These Universals existed per se. They are not only conceptions of the mind; they are entities; and our perceptions of them are formed in the same manner as our perceptions of other things.

Greek Philosophy, no less than Greek Art, was eminently Objective. Now what is the objective tendency, but the tendency to transform our conceptions into perceptions—to project our ideas out of us, and then to look at them as images, or as entities? Let then the conception of genera be rendered objective, and the Realist doctrine is explained. Our covergeisses were held by Bealism to be perceptions of existing Things; these Plato called Ideas, which he maintained to be the only real existences: they were the sowness of which all individual things were the phesomenr. If then we define the Platonic 'Idea' to be a 'Nonmenon,' or 'Substantial Form," we shall not be far wrong: and most of the disputes resmeding the real meaning of the term will be set aside; for exonple, Ritter's wavering account of the word-in which he is at a loss to say whether Idea means the suircreal, or whether it does not also mean the issirvition. That Plato usually designates a General Term by the word Idea, there can be no doubt; there can be no doubt also that he semetimes designates the resence of some individual thing an Idea, us in the Republic, where he speaks of the Idea of a Table from which all other Tables were formed. There is no contradiction in this:-- a general form is as necessary for Tables as for Men: this Idea, therefore, equally particles of generality, even where exemplified by particular things.

We must now endeavour to indicate the position occupied by Ideas in the Platonic cosmology. To Socrates Plato was indebted for his Method; yet not wholly indebted, seeing that he enlarged the conception transmitted to him. To Pythagoras he was indebted for his theory of Ideas; yet not wholly indebted, seeing that he modified it and rendered it more plausible. What he did for Method we have seen: let us now see how he transformed the Pythagorean doctrine.

Aristotle, in a memorable passage, says:— Plato followed Socrates respecting definitions, but, accostomed as he was to inquiries into universals (δω τὰ ζοτήσων περὶ τῶν καθύλου), he supposed that definitions should be those of intelligibles (i.e. nouneral), rather than of sensibles (i.e. phenomena): for it is impossible to give a general definition to sensible objects, which are always changing. Those Intelligible Essences he called Ideas, adding that assaulte objects were different from Ideas, and received from them their names; for it is in consequence of their participation (caré µitelge) in Ideas, that all objects of the same genus receive the same name as the Ideas. He introduced the word participation. The Pythagoreau say, that "Things are the copies of Numbers." Floto says, "the participation." he only changes the name."

With due solutions we venture to specifion the assertion of Aristotle in the last sentence. Plato did more than change a name. The conception above of Ideas, in generical types, is a great advance on the conception of Numbers. But Plato did not stop here. He ventured on an explanation of the asture and the degree of that participation of sensible objects in Ideas. And Aristotle himself, in another place, points out a fundamental distinction. Plato thought that sensible Things no less than their causes were Numbers; but the casses are Intelligibles (i.e. Ideas), and other things Seasibles '† Surely, this is something more than the invention of a name! It gives a new character to the theory; it renders it at once more clear, and more applicable.

The gentest difficulty felt in the Ideal theory is that of perticipation. How, and in low far, does this participation take place? A question which Plato did not, and could not, solve. All that he could answer was, that human knowledge is necessarily imperied, that sensation troubles the intellectual eye, and only when the soil is free from the hindrances of the body shall we be able to discern things in all the ineffilde splendour of truth. But, although our knowledge is imperfect, it is not false. Reason mables us to catch some glimpses of the truth, and we must endeavour to gain more. Whatever is the object of the soul's thought, purely as such, is real and true. The problem is to separate these glimpses of the truth from the prejudices and errors of more common.

In this doctrine, opinion is concerned only with Appearances (phenomena): philosophy, with Existence. Our sensation, judgments, opinions, have only reference to vs pryrigions; our philosophic conceptions have reference to via form. The whole matter is comprised in Plato's nusceer to Diagenes, who thought he demolished the theory of Ideas by exclaiming, 'I see indeed a table; but I see no Idea of a table.' Plato replied, 'Because you see with

^{*} Mitspli La

[†] Alictoph. I. 7, 'ADDA rule pale respecte circless, resiscon de alecterois.

your eyes, and not with your reason.' Hence, at the close of the lith Book of his Beyndör, he says that those only are to be called Philosophers who devote themselves to the contemplation of vo Se, i. s. Existence.

The phenomena which constitute what we perceive of the world (i.e. the world of sense) are but the resemblences of matter to Ideas. In other words, Ideas are the Forms of which uniterial Things are copies; the souwear, of which all that we perceive are the Appearances (phenomena). But we must not suppose these copies to be exact; they do not at all participate in the nature of their models; they do not even represent them, otherwise than in a superficial manner. Or perhaps it would be more correct to say, that Ideas do not resemble Things; the min does not resemble his portrait, although the portrait may be a tolerable resemblance of him; a resemblinee of his aspect, not of his nature. If, then, the Ideas as they exist realized in Nature do not accurately resemble the Ideas as they exist per se-i.e. if the phenomena are not exact region of the nonmena-how are no ever to althin a knowledge of Ideas and of Truth? This question plunges us into the madet of his psychology, which we must first explain before the whole conception of the Ideal theory can be made consistent.

\$ V. PLITO'S PSYCHOLOGY.

After the decay dialectics of the two preceding Sections, it is some refreshment to be able to open this Section with a myth, and that perhaps the most fascinating of all Plato's myths.

In the Pheadeur Socrates very justly declares his imbility to explain the real nature of the soul. But, though he cannot exhibit it, he can show what it resembles. Unable to give a demonstration, he can paint a picture; and that picture he paints as follows:—

"We may compare it to a clariot, with a pair of winged horses and a driver. In the scale of the Gods, the horses and the drivers are entirely good: in other scale only partially so, one of the horses excellent, the other visions. The business, therefore, of the driver is extremely difficult and troublesome.

'Let us now attempt to show how some living beings came to be spoken of as mortal, and others as immortal. All souls are employed in taking care of the things which are immunate; and travel about the whole of heaven in various forms. Now, when the soul is perfect, and has wings, it is carried aloft, and helps to administer the entire universe; but the soul which loses its wings, drops down until it catches hold of something solid, in which it takes up its residence; and, having a dwelling of clay, which seems to be self-moving on account of the soul which is in it, the two together are called an animal, and mortal. The phrase "immortal animal" arises not from any correct understanding, but from a fiction i never having seen, nor being able to competited, a deaty, men concrised an immortal being, having a body as well as a soul, united together for all eternity. Let these things, then, be as it pleases God; but let us next state from what cause a noul becomes unfledged.

'It is the nature of wings to lift up heavy bodies towards the habitation of the Gods; and, of all things which belong to the body, wings are that which most partakes of the divine. The divine includes the beautiful, the wise, the good, and everything of that nature. By these the wings of the soul are nourished and increased; by the contraries of these, they are destroyed.

Jupiter, and the other Gods, divided into certain bands, travel about in their winged chariots, ordering and attending to all things, each according to his appointed function; and all who will, and who can, follow them. When they go to take their reposts, they journey towards the summit of the smalt of heaven. The chariots of the Gods, being in exact equilibrium, and therefore easily guided, perform this journey easily, but all others with difficulty; for one of the two horses, being of inferior nature, when he has not been exceedingly well trained by the driver, weighs down the vehicle, and impels it towards the earth.

The souls which are called immortal (viz. the Gods), when they reach the summit, go through, and, standing upon the convex outside of heaven, are corried round and round by its revolution, and see the things which lie beyond the heavens. No poet his reer celebrated these supercelestial things, nor ever will celebrate them, as they deserve. This region is the seat of Existence itself; Real Existence, colourless, figureless, and intargible Existence, which is visible only to Mind, the charioteer of the soul, and which forms the subject of Real Knowledge. The minds of the Gods, which are fed by pure knowledge, and all other thoroughly cell-ordered minds, contemplate for a time this universe of Being' per se, and are delighted and nourished by the contemplation, until the revolution of the heavens beings them back again to the same point. In this circumvolution, they contemplate Justice itself, Temperature itself, and Knowledge; not that knowledge which has a generation itself, and Knowledge; not that knowledge which has a generation

or a beginning, not that which exists in a subject which is any of what we term beings, but that Knowledge which exists in Being in general; in that which really Is. After thus contemplating all real existences, and being nourished thereby, these souls again sink into the interior of the beavens, and repose.

'Such is the life of the Gods. Of other souls, those which best follow the Gods, and most resemble them, harely succeed in lifting the head of the character into the parts beyond the beavens, and, being carried round by the circumvolution, are snabled with difficulty to contemplate this universe of Self-Existence. Others, being encumbered by the horses, sometimes rising and sometimes mixing, are snabled to one more Existences only. The remainder only struggle to elevate themselves, and, by the unskillulness of their drivers, craming continually into collision, are lamed, or break their sings, and, after much labour, go away without accomplishing their purpose, and return to feed upon mere opinion.

'The motive of this great anxiety to view the supercelestial plain of Truth is that the proper food of the soul is derived from thence, and, in particular, the wings, by which the soul is made light and carried aloft, are nourished upon it. Now it is an inviolable law that any sout which, placing itself in the train of the Gods, and journeying along with them, obtains a sight of my of these selfexistent Realities, remains exempt from all harm until the next circumvolution, and, if it can contrive to effect this every time, it is for ever safe and uninjured. But if, being unable to elevate itself to the accessary height, it altogether fails of seeing these realities, and, being weighed down by vice and ultiviou, loses its wings and falls to the earth, it enters into and suimstes some Body. It never enters, at the first generation, into the body of a brute suimal; Int. that which has seen most enters into the body of a person who will become a lover of wisdom, or a lover of beauty, or a person addicted to music, or to love; the next in mak, into that of a monarch who reigns according to law, se a warrior, se a man of talents for command; the third, into a person qualified to administer the State, and manage his family affairs, or every on a gainful occupation; the fourth, into a person foud of hard labour and bodily exercises, or skilled in the presention and curing of hodily diseases; the fifthinto a prophet, or a teacher of religious caremonics; the sixth, into a port, se a person addicted to any other of the imitative arts; the seventh, into a lumbundum or an artificer; the righth, into a soshist, or a courtier of the people; the north, into a degot and

usurper. And, in all these different fortunes, they who conduct themselves justly will obtain next time a more eligible lot; they who conduct themselves unjustly, a worse. The soul never returns to its pristing state in less than ten thousand years, for its wings do not grow in a shorter time; except only the soul of one who philosophius with sinerrity, or who loves with philosophy. Such souls, after three periods of one thousand years, if they choose threein succession this kind of life, recover their wings in the three thousandth year, and deport. The other souls, at the termination of their first life, are judged, and, having received their sentence, are either sent for punishment into the places of execution under the earth, or are elevated to a place in heaven, in which ther are rewarded according to the life which they led while here. In either case they are called back on the thousandth year, to choose or draw lots for a new life. Then a learnin soul often passes into the body of a beast, and that of a beast, if it has ever been human, passes again into the body of a man; for a soul which has never seen the Truth at all cannot enter into the human form, it being necessary that man should be able to apprehend many things according to kinds, which kinds are composed of many perceptions combined by reason into soc. Now, this mode of apprehending is neither more nce less than the recollecting of those things which the soul formerly saw when it journeyed along with the Gods, and, disregarding what we now call beings, applied itself to the apprehension of Real Being. It is for this reason that the soul of the philosopher is refledged in a shorter period than others; for, it constantly, to the host of its power, occupies itself in trying to recollect those things which the Gods contemplated, and by the contemplation of which they are Gods; by which means being lifted out of, and above, human cares and interests, he is, by the rulgar, comblered as mad, while in reality he is inspired."

This is unquestionably the poetry of philosophy, and it is from such passages that the popular opinion respecting Plate has been formed, but they represent only a small portion of the real thinker. Towards the close the reader will have remarked that the feasure doctrine of reminiscence is implied. This footrine may be seen fully developed in the Phesis; it seems to have been a fundamental one. The difficulties of conceiving the possibility of any knowledge other than the sense-knowledge, whole the Sophists had accessfully proved to lead to scripticism, must early have troubled Plate's mind. If we know nothing but what our senses teach us, then is all knowledge trivial. Those who admit the imperfection of the senses and fall back upon Reason, but the question. How do we know that Remon is correct? How can we be assured that Reason is not subject to some such inevitable imperfection as that to which sense is subject?

Here the exer-recurring problem of luman knowledge presents itself. Plate was taught by Socrates that beyond the world of Same, there was the world of exercal Truth; that men who differed greatly respecting individual things did not differ respecting universals; that there was a common finid of Truth, from which all human souls drew their share. Agreeing with his master that there were certain principles about which there could be no dispute, he wished to know how he came by those principles.

All who have examined the nature of our knowledge, are aware that it is partly made up of direct impressions received by the senses, and partly of ideas which never more, at least in their ideal state, pareived by the senses. It is this latter part which has agitated the schools. On the one side, men have declared it to be wholly independent of the senses—to be the pure notion of the soul. In its simplest form, this doctrine may be called the doctrine of Innate Islans. On the other side, men have as vigorously argued that, although all our ideas were not absolutely derived from the senses in a direct manner, yet they were all so derived in an indirect manner; thus, we have never near a mermaid; but we have never hoth a fish and a noman, and to combine these two impressions is all that the moul does in consciving a mermaid. This doctrine is pushed to its limits in the eighteenth-century philosophy, which mays. Peasey, c'est senter thought is a transformed sensation.

Plate, in adopting the former view, rendered it more cogent than most of his successors; for is it not somewhat gratuitions to say, we are born with such and such ideas? It is different from suying we are born with certain faculties: that would be admissible. But, to be driven into a corner, and on being asked; whence came those ideas? to answer, they are impate,—is a pure petitic prisripii. What proof have you that they are impate? Merely the proof that you cannot otherwise account for them!

Plato was more consistent. He said The Soul is and over was immortal. In its auterior states of existence it had accurate conceptions of the eternal Truth. It was face to face with Existence, Nose, having descended upon earth, having passed into a body, and, being subject to the hinderances of that bodily impresonment, it is

no longer face to face with Existences it can see Existence order through the over-changing flux of austerial phenomena. The world m only becoming, never in. The Soul would appealed only the Secondary, had it not some preoflection of its saternor state-had in not in some sort the power of tracing the unsarying Idea under the varying phenomens. When, for example, we use a stress, off that our senses convey is the oppenence of that stone: but, as the stone is large or small, the soul sporeheads the Idra of Greatness; and this murchrosion is a reminiscence of the world of Lices, awakened by the sensation. So when we see or hear of a benevolent action, besides the fact, our Soul apprehends the Idea of Goodness. And all our recollection of Ideas is performed in the same way. It is as if in our youth we had listened to some mighty agator whose printed speech we are reading in old-age. That printed pure, how poor and faint a copy of that thrilling eloquence! how we miss the speaker's patroing, vibrating tones, his flashing eye, his flashing face! And yet that printed page in some dim way recalls those tours, resalls that face, and stirs us somewhat as we then were stirred. Lour years and many proceedings have somewhat efficial the impression be first made, but the printed words serve faintly to recall it. Thus it is with our immortal Souls. They have sojourned in that colostial region where the voice of Truth rings clearly, where the aspect of Truth is anveiled, undimmed. They are now sojourning in this fleeting, flowing river of life, stung with resistless longings for the skies, and solared only by the reminiscences of that former state which these fleeting, broken, incoherent images of Ideas awaken in them.

It is a mistake to suppose this a more poetical conception. Plato never sacrifices logic to poetry. If he sometimes calls poetry to his aid, it is only to express by it those ideas which logic current group, ideas which are beyond demonstration; but he never unfulges in more funcies. Instead therefore of saying that Remon was occupted with immte ideas, he crossistently said that overything which the senses did not furnish was a reminiscence of the world of Ideas.

We are now in a condition to answer the question with which the last Section was closed,—How to ascertain the Tenth, if Photements are not exact copies of Nommens? The sensation awakers recollection, and the recollection is of Truth; the soul is confronted with the Many by means of Sense, and by means of Remon it detects the One in the Many; i. a. the particular things perceived by Sense awaken the recollection of Universals or Ideas. But this recollection of Truth is always more or less imperfect. Absolute Truth is for the Gods above. No man is without some of the divine spark. Philosophers alone have any large share; and they might increase it by a proper method.

The philosophy of Plato has two distinct branches, somewhat resembling what we found in Parmenides. The miverse is divided into two parts; the celestial region of Ideas, and the mundane region of unitrial phenomena. These answer very well to the modern conception of Heaven and Earth. As the phenomena of matter are but copies of Ideas (not, as some suppose, their boddy realization), there arises a question: How do Ideas become Matter? In other words: How do Things participate in Ideas? We have mosted the spection in the former Section, where we said that it mimitted of no satisfactory solution; nor does it; and we must not be surprised to End Plato giving, at different times, two very different explanations. These two explanations are too curious to be overlooked. In the Republic, he says that God, instead of perpetually creating individual things, created a distinct type (Idea) for each thing. From this type all other things of the class are made. Thus, God made the Idea of a hed a according to this type, any corposter. may now fishion as many hole as he likes, in the same way as an urtist may imitate in his paintings the types already created, but cannot bimself create anything new. The argument, as an illustration of Plato's Method, may be given here;-

'Shall we proceed according to our usual Method? That Method, as you know, is the embracing under one general Idea the multiplicity of things which exist separately, but have the same name. You comprehend?

Perfectly.

Let us take mything you like. For instance, there is a multiplicity of beds and tables?

Certainly.

But these two kinds are comprised, one under the blex of a bed, and the other under the blex of a table?

* Without doubt.

* And we say that the expenter who makes one of these articles, makes the bed or the table according to the Idea be has of each. For he does not make the Idea itself. That is impossible?

Truly, that is impossible.

/ Well, now, what name shall we bestow on the workman whom I am now going to name /

"What workman?

"Him who makes what all the other workmen make separately.

'You speak of a powerful man!

Patience; you will admire him still more. This workness has not only the talent of making all the works of art, but also all the works of nature; plants, unimals, everything else; in a word, himself. He makes the Heaven; the Earth, the Gods; everything in Heaven, Earth, or Hell.

'You speak of a wonderful workman, truly!

"You seem to doubt me? But, tell me, do you think there is no such workman; or, do you think that in one sense my one could do all this, but is another no one could? Could you not yourself succeed in a certain way?

" In what way?

"It is not difficult; it is often done, and is a short time. Yake a mirror, and turn it round on all sides; in an instant you will have made the sun and stars, the earth, yourself, the animals and plants, works of art, and all we mentioned.

4 Yes, the images, the supenmuces, but not the real things.

"Very well,) you comprehend my opinion. The printer is a workman of this class, is be not?

"Certainly.

'You will tell me that he makes nothing real, although he makes a led in a certain way?

"Yes; but it is only an appearance, an image.

* And the carpenter, did you not allow that the had which be made was not the Idea which we call the essence of the bed, the real had, but only a certain bed?

" I said so, indeed:

"If, then, he does not make the Idea of the hed, he makes nothing real, but only something which represents that which really exists. And, if any one maintain that the corpenter's work has a real existcace he will be in error."?

In the Treasus, perhaps the most purely expository of all his works, and unquestionably one of the latest, Plato takes a totally different view of the creation of the world. God is there said, not

[&]quot; To're dike on imprise. We are inclined to regard this passage is everythe self-erestion of God being cortainly as Platonic motion; at least not combinated by any other passage in any other work. The selection makes in comment on it.

⁹ Jayres, v. 117-8; ed Briker,

to create types (Ideas); but, these types having existed from all eternity, God in Eashioning Chaos fashioned it after the model of these Ideas. In this view there is no participation in the nature of Ideas, but only a participation in their form.

Whichever hypothesis he adopted [and Plato did not much care for either), this conception of Heasen and Earth as two different regions, is completed by the conception of the double nature of the scal; or rather, of two scals: our Rational and the other Sensitive. These (we scals are closely connected, as the two regions of Ideas and Phenomena are connected. Neither of them is superfluous; acither of them, in a human sense, sufficient: they complete each other. The Sensitive such arealess the reminiscences of the Rational scal; and the Rational scal, by detecting the One in the Many, preserves Man from the scepticism inevitably resulting from more sense-knowledge.

Thus did Plato resume in himselfall the conflicting tendencies of his age; thus did he accept each portion of the troth supposed to be discovered by his preducessors, and reconcile these portions in our general tendency. In that cost system, all scepticism and all faith found acceptance; the scepticism was corrected, the faith was propped up by more solid arguments. He admitted, with the scepties, the imperfection of all sense-knowledge; but, though imperfect, he declared it not wordsless; it is no more like the Truth than phenomena are like Ideas; but, as phenomena are in some sort modelled after Ideas, and do, therefore, in some dim way, represent likess, so does sense-knowledge lead the patient thinker to something like the Truth: it awakens in him reminiscence of the Truth. As Ritter says, 'He shows, in detail, that in the world of sense there is no perfect likeness, but that an object which at one time appears like, is at another thought to be unlike, and is, therefore, defective in completeness of normaliance, and has at most but a tendency thereto. The same is the case with the Beautiful, the Good, the Just, the Holy, and with all that really is; in the sensible world there is nothing exactly resembling them, neither similar nor dissimilar; all, however, that passesses any degree of correspondence with those true species of being is perceived by us through the senses, and thereby reminds us of what truly is. From this it is clear that he had previously seen it somewhere, or been conseions of it, and, as this could not have been in the present, it must have been in some earlier state of existence. In this respect there is a close connection between this doctrine and the view of sensible

objects, which represents them as more copies or resemblances of the super-sensible truth; for, oven in perception, a feeling arises upon the mind, that all we see or hear is very far from reaching to a likeness to that which is the true being and the absolutely like; but that, striving to attain, it folks short of perfect resemblance; and consequently, the impressions of the sense are more tokens of the sternal ideas, whose similitude they bear, and of which they are copies."

§ VI. SUMMARY OF PLAYS'S DIALECTICS.

Having exhibited Plato's conceptions of Method, of Ideas, and of the Soul, it will now be convenient to take a brief review of them, to exhibit their position in the general doctrine.

Disketies was the base of the Platonic dostrino. Indeed, Plato believed in no other Science; Dialectics and Philosophy were synonymous. For Dialecties (or Logic) to be synonymous with Philosophy, the theory of Ideas was necessary. Dialectics is the science of general propositions, of general terms, of miversals. To become the science it must necessarily be occupied with more important things. If cas are these important things; for bless are at once the only real Existences, and General Terms. Whose discoursed about General Terms discounsed about Existence; and deeper than that, no science could hope to penetrate. Plato, whose opinious can scarcely ever be accepted as final, is both explicit and constant in his conception of Dialecties as the science. To determine the real nature of science, he devotes an entire dialogue; the Pinetelia. That remarkable work is purely entired; it refutes the opinions of adversaries, in such a way as to leave no doubt as to Plato's own remain. All attempts to constitute science either upon perception (silethers) or upon opinion (86\$a) he refictes in an irresistible manner. Perception can only be of objects which have no stability, which have no real Existence. Opinion, though it be correct, is unable to constitute science; for there are two sorts of opinion,false and true, and to distinguish the true from the false would require a science which know the Truth. It follows, as a necessary consequence, that Ideas, which are the real immutable elements of session, must be known in themselves, and that science consists in seeking the order of development of these Ideas; that is to sur, in Dialectics.

Owing to the Ideal theory, Dialectics was necessarily the science;

that is, the science of Being. The distinction between his Dialectics and the Logic of his successors is very marked. While he spake of Dialectics as the art of methodical classification of genera, —the art of speaking upon general notions,—he did not confine it to subjective truth; for he believed this subjective truth to be only a reflex of the objective reality: he believed that abstract ideas were images of real existences. Dialectics was therefore not only the 'art of thinking,' but the science of immutable being.

In the twofold aspect of Creation there was this division of knowlodge —

PERCEPTION.

Matter, phenomena, tá psycógora = Sensation = Opinion.
Dialectics.

Existence, Ideas, và favam Abstract Ideas ... Science.

In the everelininging flux of Becoming, which was the object of Perception, there were traces of the immutable Being, which was the object of science. This distinction may be applied to Plato's own manifold works. We may say of them that the opinions on psychology, physics, ethics, and politics are constantly changing, macertain; but maidst all these surious opinions there exigns one constant Method. He never wavers us to Dialectics. We may therefore fully understand the importance bestored on Dialectics; and we may also clearly see what is meant by identifying his Philosophy with Dialectics.

The basis of the Platonic doctrine therefore is Diobelics; the subject-matter of Dialectics consists of Ideas; and the Method consists of Definitions, Analysis, and Induction.

§ VII. PLATO'S THEOLOGY AND CONSCIOUS.

Hitherto we have been occupied solely with the general doctrine; we have note to descend to particulars. But, as so often remarked, particular doctrines have scarcely any stability in the Platonic writings; what is advanced today is refuted tomorrow; accordingly, critics and historians have squabbled about these wavering epinions, as if agreement were possible. One declares Plato held one opinion; and eites his passages in proof. Another thinks his pre-flexassor a blockhead; and cites other passages wholly destructive of the opinion Plato is said to have maintained. A third comes, and, stringing passages from one dialogue to passages from another, interprets the whole in his own way. A consistent Thrological doc-

trine will not therefore be expected from us: we can only reproduce some of the Platonic notions, those especially which have influenced bare thinkers.

In the same way as Plate sought to desert the One amilst the Multiplicity of gasterial phenomena, and, having detected it, declared it to be the real course of matter, so also did he suck to detect the One amidst the Multiplicity of Ideas, and, having detected it, declared it to be God. What Ideas were to Phenomera. God was to Ideas: the last result of generalization. God was thus the One Being comprising within himself all other Beings, the fer and worked, the Cause of all things, extested and torrestrial. God was the supreme Iden. Whatever view we take of the Platenic cosmology-whether God counted Ideas, or whether he only fishioned unformed matter after the model of Ideas-we are equally led to the conviction, that God represented the supremy Idea of all Existence: the great Intelligence, source of all other Intelligences; the Sun whose light illumined creation. God is perfect, ever the same, without cavy, wishing nothing but good: for, although a rear knowbelieve of God is impossible to mortals, an approximation to that knowledge is possible; we rannot know what he is, we can only know what he is like. He must be good, because self-sufficing; and the world is good, because he made it. Why did he make it? God made the world because he was free from cury, and wished that all things should resemble him as much as possible; he therefore permanent Necessity to become stable; harmonious, and fashioned according to Excellence. Yes, personally is Phito's word; for there were two eternal Principles, Intelligence and Necessity, and from the mixture of these the world was made; but Intelligence persuaded Nervasity to be fashioned according to Excellence. * Hr sarranged chaos into Beauty. But, as there is nothing beautiful but Intelligence, and as there is no Intelligence without a Soul, he placed a Soul into the body of the World, and made the World an pointal.

Plato's proof of the world bring an animal is too runous a specimen of his analogical reasoning to be passed over. There is warmth in the human bring; there is warmth also in the world; the human bring is composed of various elements, and is therefore

[&]quot; Mayayare you the is made only allowing places of diagram to all and determine algoriths, and he distinguish degliness of molders along the payerships the abstract on a polynomial figure. There is, p. 56.

called a body; the world is also composed of various elements, and is therefore a body; and, as our bodies have made, the body of the world must have a scal; and that soul stands in the same relation to our world, as the warmth of the world stands to our warmth.* Having thus demonstrated the world to be an animal, it was but antural he should conserve that animal as resembling its creater, and human beings as resembling the universal animal, $\tau \bar{\nu} = \pi \bar{\nu} \bar{\nu} \gtrsim 5 a \nu$. As soon as the World, that image of the eternal Gods, as soon as that vast Animal began to more, live, and think, God looked upon his work, and was glad.

But, although God in his goodness would have made nothing exil. he could not pervent the existence of it. Various disputes have been starmly carried on by scholars, respecting the nature of this Evil which Plate was forced to admit. Some large conceived it nothing less than the Manichean doctrine. Thus much we may say: the notion of an antagonist principle is inseparable from every religious formula: as God gan only be Good, and as Evil does certainly exist, it must exist independently of him; it must be currial. Plate out the matter very short by his logical principle, -- that since there was a Good, there must necessarily be the continue of Good, namely, Evil. If Evil exists, how does it exist, and solver? It cannot find place in the celestial region of Ideas. It must therefore necessarily dwell in the terrestrial region of phenomem; its home is the world; it is banished from heaven. And is not this logical? What is the world of Phenomena but an imperfect copy of the world of Ideas, and how can the imperfect be the purely Good? When Ideas are 'realized,' so the Pantheists would say, when Ideas, pure immutable exercise, are clothed in material forces, or when matter is fishioned after the model of those Ideas, what can result but imperfections? The Ideas are not in this world: they are only in a state of becausing, forms form, not provisers. Phonomica and in their very nature imperfect: they are perpetually striving to exist us realities. In their constitution there is constitute of the divine; an image of the Idea, and some participation in it; but more of the primeral chaos:

Those, therefore, who say that Plato thought that "Evil was-

^{*} Philebox, pp. 170-1.

^{† &#}x27;Or his complier which will film descripes the difficultation proposed specially as and exposurable for his public form to my different formula for his public formula for the public formula for the film of th

inherent in neutror, though expressing themselves loosely, express themselves on the whole correctly. Matter was the great Necessity which Intelligence fishioned. Because it was Necessity and unintelligent, it was Evil, for Intelligence alone can be good."

Now, as this world of phenomena is the region where Eril dwells, we must use our introset endowours to escape from it. And how escape? By smeals?—No. By leading the life of the Gods; and every Flatonist knows that the life of the Gods consists in the eternal contemplation of Tenth, of Ideas. Thus, us on every side, are we forced to encounter Dialectics as the sole salvation for man.

From the above explanation of the nature of Evil, it will be seen that there is no contradiction in Plato's saying, that the quantity of Evil in this life exceeded that of the Good, it exceeds it is the proportion that phenomena exceed nonzeros,—that matter exceeds Ideas.

But although Evil to a necessary part of the world, it is in constant struggle with Good. What is this but the struggle of Becowing? And man is endowed with Free Will and Intelligence; he may therefore choose between Good and Evil.? And according to his choice will his future life be regulated. Metempsychosis was a doctrine Plato borrowed from Pythagoras; and in that doctrine he could find arguments for the enforcement of a sage and virtuous life, which no other afforded at that epoch.

We have said nothing of the arguments whereby Plato process the existence of God; for we have been forced to pass over many details: but we cannot close this chapter without alluding to an argument often used in modern times, and seldem suspected to have had so ancient an upholder,—God in proved to exist, by the very feeling of affinity to his nature which stirs within our souls.

Such opinious as those above set down were certainly expressed by Plato at different times: but we again warn the reader against

^{*} In the Lore, v. pp. 200-2, he cannot distinguished the selection that project in this manner. The decay (with provide) in the self-access principle) but increases as it is semestimes moved to had as well as to good (sile to specific airies alone decay) or the saciety it was necessary to have some other principle which should determine its direction. He therefore makes our to tallignore) the principle which determines its direction the send (whether the soul of the world or of man, it is the same) to good; and force (ignorance—want of soul which determines to so with.

^{*} Look to p. 217.

supposing them to have been his constant views. They are taken from works written at wide intervals, and bearing considerable difference of opinion; and in those very works there are measured glimpses of an appalling doctrine, namely, that man is but the plaything of God, who alternately governs and forsakes the world. The first clame of this sentence seems derived from Heraclium, who said, that 'unking worlds was the sport of Daniurgos. Place's words and these : and sorrer & their re margolor dista propagation: and this is said to be man's greatest excellence. The second chance is formally expressed by Plato thus; "God," he says, "alterancely governs and forsikes the world; when he governs it, things go on well; it is the age of gold; when he farsakes it, the world sublenly turns mend in a contrary orbit, a fearful erisis takes ulace, all things are disordered, mundane existence is totally disarranged, and only after some time do things settle down to a sort of order, though of a very imperfect kind. 't

§ VIII. Pagro's VIEW or THE BEAUTIFUL AND THE GOOD.

So much has been written and talked in modern times of roanker, the Benutiful, as conceived by Plato, and this by persons who never read a line of his works, that we must denote a few sentences to it.

The bond which unites the human to the divine is Love. And Love is the longing of the Soul for Beauty; the inextingnishable desire which like firsh for like, which the divinity within as facts for the divinity revealed to us in Beauty. This is the celubrated Platenic Love, which, from having originally meant a communion of two souls, and that in a rigidly dialectical scase, has been degraded to the expression of mandlin sentiment between the sexes. Platonic love meant ideal sympathy; it now means the love of a syntimental young gentleman for a woman by cannot or will not invery.

But what is Beauty? Not the more flattery of the senses. It does not consin in harmonious outlines and resplendent colours: there are but the indications of it. Beauty is Truth. It is the radiant image of that which was most splendid in the world of bless. Listen to Plato's description of it in the Phrefree:—' For, as we have already said, every human soul has actually seen the

Real Existences, or it would not have come into a lumin shape, But it is not easy for all of them to call to mind what they then saw; those, especially, which saw that region for a short time only, and those which, laving fallen to the earth, were so unfortunate as to be turned to injustice, and consequent oblivion of the sacral things which were seen by them in their prior state. For, therefore, remain who are adequate to the recollection of those things, These fen, when they see here my image or resemblance of the things which are there, receive a shock like a thunderbolt, and are in a manner taken out of theuselver; but, from definency of comprehension, they know not what it is which so affects them. Now, the blamesses which exist there of Justice and Temperance, and the other things which the soul lummer, do not possess any splendour; and a few persons only, with great difficulty, by the aid of dall, Must, material organs, perceive the terrestrial likenesses of those qualities, and recognize them. But Beauty was not only most splendid when it was seen by us forming part of the beavenly possession or choir, but here also the likeness of it comes to us through the most armse and clear of our senses, that of eight, and with a splendoir which no other of the terrestrial images of supercriestial Existences process. They, then, who are not fresh from heaven, or who have been corrupted, are not vehemently impelled towards that Beauty which is aloft when they see that upon earth which is called by its name; they do not, therefore, venerate and worship it, but give themselves up to physical pleasure after the number of a quasiraped. But ther who are fresh from those divine objects of contemplation, and who have formerly contemplated them much, when they see a godlike countenance or form, in which releated beauty is imaged and well imitated, are first strack with a boly are, and then, approaching, venerate this beautiful object as a god, and, if they were not afraid of the reputation of too raving a malness, would error alters, and perform sacrifices to it.

"And the warmth and genial influence derived from the atmosphere which beauty generates around itself, entering through the eyes, softens and liquides the invoterate influentiam, which coats and covers my the pure in the vicinity of the wings, and prevents them from growing. This being utilted, the wings begin to genminate and increase, and this, like the growing of the teeth, produces an iteling and irritation which disturbs the whole frame of the soul-Whou, therefore, by the contemplation of the beautiful object, the influention is undersed and the wings begin to shoot, the soul is

relieved from its pain and rejoices; but when that object is absent, the liquefied substance hardens again, and closes up the young shoots of the wings, which consequently boil up and throb, and throw the soul into a state of turbulence and rage, and will neither allow it to sleep nor remain at rest, until it can rgain see the beautiful object, and be relieved. For this reason it never willingly leaves that object, but for its sake deserts parents, and brothers, and friends, and neglects its patrimony, and despises all established usages on which it valued itself before. And this affection is Love."

The reader is doubtless by this time familiar enough with the Platonic philosophy to appreciate this passage. He will see the dialectical manning of this poetical myth. He will comprehend, also, that the Platonic Love is naturally more appropriate between two men, master and pupil, then between the two sexes; because it is then purer, and less disturbed by other feelings.

Beauty is the most vivid image of Truth; it is divinity in its most perceptible form. But what is the Good? The Good, ro dyallor, is God, but God considered in the abstract. Truth, Beauty, Justice, are all aspects of the Deity; Goodness is his nature. The Good is therefore incapable of being perceived; it can only be known in reflection. In the same manner as the sun is the cause of sight, and also the cause of the objects of sight growing and being produced, so also the Good is the cause of science, and the cause of being to whatever is the object of science, and, as the sun itself is not sight, nor the object of science, but is superior to both, for they are not the Good, but goodly.

§ IX. PLATO'S ETHICS.

Plato was a Socratist. Hitherto, however, we have seen him following his master only in his Method. The speculations on Ideas, Reminiscence, Meteopsychosis, God, etc. were things he sid not learn from Socrates, although the Socratic Method led him to these tenerations. We have before seen that Socrates occupied himself almost exclusively with Ethical topics; and it is in Ethica, therefore, that we may expect to find Plato resembling him.

Plato's ethical opinious are logical rather than ethical; that is to say, they are deductions from certain abstract logical premisers, not from investigations into human nature. Thus, when 'engaged with the discussion of particular sciences. Le resolves them into the science of Good; when engaged with the particular virtues, he resolves them into the virtue of Science. ** Everywhere the Good and the True are convertible terms, and Virtue is the same as Science. There is, moreover, considerable controlletion in his various works on this, as on other points. In one dialogue (Tieseas) he advocates Free Will; in another (Hippins Misor), Fatalian Startines wire is involuntary, at other times valuatary; sometimes, indeed generally, vice is nothing but ignorance; absorber, as we have above, vice is said to be partly ignorance and partly incontinuer. Virtue is said to be Science; yet Knowledge alone does not constitute Happiness, nor can Virtue be taught.

Although, therefore, many possages may be quoted in which morals are worthily spoken of, we cannot but regard as chimerical any attempt to deduce from them an ethical system. All that can safely be relied on is general views; such, for instance, as his subordination of Ethics to Dialectics. As M. De Gerardo selfobserves, 'be did not found his ethics on a practiple of obligation, on the definition of duty, but on the tendency to perfection.'

In Plato's Ethies the passions are entirely set uside; they are regarded as disturbances in the moral economy. Virtue is purely a matter of intelligence; and the intellect line therefore not only a regulative office, but the supreme direction of all action.† New, as Chamfort admirably mid, 'the Philosopher who would set uside the passions resembles a Chemist who would extinguish his fire.' We are all aware that it is very common 'to know the right, and yet the wong parame,' that the passions not only disturb the regulative action of Reason, but positively triumph over it; and that morals are our asores, our Ashits, as much as our beliefs.

The Ethics of Plate might unit the inhabitants of mother world; they are useless to the inhabitants of this. His Politics are his Ethics applied to the State, and Inhorr under the same errors. But his Utopian Government, the Republic, has ladd too much selebrity for us to neglect it.

The Republic is unquestionably one of the most intensiting of his works; and so slow has been the progress of social science,

^{*} Archer Butter, Lectures, in St.

⁺ We amount interrupt our expection with any examples; they are to numerous. But we may removed the strategy of that passage in the Gorgitz respecting the minery of the unjust man, in which Plate endeavours to prove that he who does no injury seffers pure than he who endures it.

compared with every other assence, that many of the views Plate has there put forth are still entertained by very serious thinkows; whereas his views on morals seldom, his views on physics never find a defender.

The weakness of man is the cause why States are formed: As be cannot suffice to himself, he must five in society. This society should be an image of man himself. The faculties which belong to him must find a proper field of activity in society; and this was union of intellects should form but one intelligence. Thus man's virtues are, I, desireous, wisdom; 2, despecie, fortitude; 3, cuspossive, temperature; 4, Sacassocies, justice. The State, therefore, must have its Bulens, the philosophera, who will represent windom; its Soldiers, who will represent fortitude; its Craftsmen and burghers, who will represent temperature. Justice is a quality which must be shared by all classes, as lying at the root of all sirtuous action.

In wisdom and justice we have the alpha and omega of Plato's doctrine: justice is wisdom in net. The office of the Rulers is therefore to ordain such laws as will eventually precent all injustice in the State. Their first care will be to matil into the minds of the citizens just notions respecting the Desty. All those who attribute to the Drity the positous and imperfections of men must be hunished; hence the famous banishment of the poets, of which so much has been said. This law, pushed to its rigorous conclusions, is the law of functionin. Whatever the Rulers believed respecting Baligion, was to be the Religion of the State. Strange that a pupil of Sornies should have advocated a law, the operation of which caused his muster's conformation! But there are other causes for the banishment of the poets besides their fictious respecting the Gods. They energate the well by pictures of immoderate desires; they give imitations of the vices and follors of men; they overstep the limits of that moderation which alone can balance the soul. Even the musicions are to be bunished; those at least who are positive and harmonious. Only the Durian and the Phrygian music can be admitted; the our impetuous and vurlike, the other calm.

There is a germ of Stoicism in Plato, and that germ is here seen developed. A measured equability of mind was his ideal of human happiness, and anything which interfered with it was denounced. Poetry and music interfered with this equability, and so did conjugal love. As the State could not subsist without children, children must be begotten. But parents are foolishly food; they are avaricious for their children; mubitious for them. Husbands are also foolishly foud. To prevent these disturbances of good order. Plate ordains community of wises, and interdiets parentage. Women are to be chosen for anarrage as brood-names are chosen. The violent women to be assorted to the mild men; the mild to be astorted to violent men. But the children belong to the State. Thry are, therefore, to be consigned to the State Nurses, who will superintend their early education. Because elableen manifest different esparities. Plate thought with St. Simon, that each citizen should be runked according to his capacity, the State would undertake to decide to which class the young man should belong. But, if damestic life is thus at a blow sacrified to the public good, do not imagine that women will lose their occupations. No: women most share with men the tolla of war and agriculture. The female day guards sheep as well as the male; why should not the woman guard the State ? And, as some few women manifest a causeity for philosophy, those few will share with men the government. With continuity of wives and children, it is natural that community of property should be joined. Property is the great disturber of social life; it engenders crimes and luxuries which are searcely better than crimes. Property, therefore, must be abolished. The State alone has riches.

In one word, the Family, no less than the individual, is sarrifeed to the State; the State itself being an Abstraction. Like the Unpists of modern days, Plato has developed an a priori theory of what the State should be, and by this theory all human feelings are to be neglected; instead of developing a theory a posterior, i.e. from an investigation into the nature of human wents and feelings.

By thus reducing the Republic to its theoretical formula, we are doubtless viewing it in its most unforourable light. Its value, and its interest, do not consist in its political ideas, but in its collateral suggestions on education, religion, and stomals. But these archeside our present purpose.

Wallingly would we discourse upon this remarkable book at greater length; but, although we have only touched on a few points connected with Plato, we have already exhausted the space we could afford, and must close here this imperfect account of our of the greatest minds of antiquity. If we have assigned him his dis-

^{*} This is Plate's own illustration.

I be the Zerry, many of the political and social notions are mollified, but the general theory is the same.

position in the history of human development—if we have in some sort presented the reader with a clue, whereby he may traverse the labyrinth of that existrated but much misrepresented writer if we have succeeded in conveying some impression of the man, more consciunt with truth than that usually accredited, we have performed our task.

SEVENTH EPOCH.

PHILOSOPHY AGAIN REDUCED TO A SYSTEM: CLOSE OF THE SOCRATIC MOVEMENT.—ARISTOTLE,

CHAPTER 1. ARISTOTLE.

& L. LIFE OF ADDRESSES.

WHEN Plate was leaving Athens for the journey into Stelly, of which we have spoken, and which occupied him there years or more, Aristotle appeared in that active city, a restless youth of seventeen; rich both in money and in knowledge, cager, impetators, truth-loving, and insatiable in his thirst for philosophy. Things of the wondrous wen who made that city illustrious, and whose fame still sheds a halo round its rains, had reached him in his native land; tidings of the great thinkers and the growth schools had lared him, though so young, to Athens.

Aristotle was born at Stagara, a colony in Thrace, Obrapaid 99

(a. c. 584). His father Nicomachus was an eminent physician, who had written several works on medicine and autural history; so that Aristotle's love of such subjects may be called hereditary. And this hereditary love, so conspicuous in the marvellens results of the two treatises on the History of Asimus and the Parks of Asimus —works which modern science is daily enabling us to appreciate better—may have been fostered by the opportunities Stagins offered him in his bothood. It was a town on the western side of the

better—may have been fostered by the opportunities Stagira offered him in his boyhood. It was a town on the western side of the Strymonic Gulf, just where the general line of court takes a semierly direction. Immediately south a promontory ran our townsh the cast, effectually screening the town and its hittle harbour Capero (formed by the island of the same name), from the violence of the equalls coming up the .Egean. "In the serrocal unitings too, by which the statior combs through the orange grown of Serrento, he may without any great violence imagine the narrow and steep paths by which an ancient historium and charagrapher inscribes those who crossed the mountains out of Maccionia, as descending into the valley of Arethuse, where was seen the tomb of Europides and the town of Stagina."

Aristotle, being his parents at an early age, was consigned to the care of a certain Proximus, who had him instructed in all the physical knowledge of the time. Proximus died, and Aristotle then fulfilled his desire of swing Athens.

During the three years of Plato's absence Aristotle was not idle. He prepared himself to be a worthy pupil. He wealth enabled him to purchase those costly luturies. Books—there was no shorp Laterature as those days—and in them he studied the speculations of the early thinkers, with a zeal and intelligence of which his own writings hear ample evidence. There were also some friends and followers of Socrates and Plato still at Athens men who had listened to the entrancing conversation of the 'old men elequent,' who could still remember with a smile his lessn and playful irony; and others who were nequainted with some of the deep thoughts broading in the melancholy soul of Plato. These Aristotle engerly questioned, and from them prepared himself to receive the lessons of his future teacher.

Plato returned. His school was opened, and Aristotle joine! the crowd of his disciples, omought whom the penetrating glance of the unster som detected the immertal pupil. Plato saw hat the impetious youth needed the curb; but there was promise of greatures in that very need. His restless activity was characterized by Plato in an epithet: "Anistotle is the Mind of my school."

Aristotle continued to listen to Plato for seventoen years; that is, till the death of the latter. But he did not confine himself to the Platone philosophy; nor did he entirely agree with it. And from this disagreement has arisen the valgar notion of a personal disagreement between Master and Pupil; a notion, to be sure, propped up with pertended unexplotes, and refuted by others equally authoritie. Much has been written on this quarrel, and on what people call Aristotle's ingratitude. We place no reliance on it. The same thing was said of Plato with respect to Socrates; and we have excellent reasons for treating that as calcumy. In his writings Aristotle doubtless combats the opinion of Plato; but he always mentions him with respect, sometimes with tenderness. If that be ingratitude, it is such as all pupils have manifested who have not been shrish followers.

[·] Blaberby's Life of Asistath, p. 12.

^{*} The presence is discussed with ability by Mr. Biblioticy in his Life or

It was a wise thought of Macedonian Philip to give his son Alexander such a preceptor as Aristotle. For four years was the illustrious gupil instructed by the illustrious master in postry, rhetoric, and philosophy; and, when Alexander departed on his Indian especition, a scholar of Aristotle's, one Callinthenes, attended him, 8. Both from Philip and from Alexander, the Stagistic received manifestat assistance in all his undertakings: especially in the collection of natural curiosities, which were selected from captured provinces, to form the materials of the History of Assistate.

"The conqueror is said, in Athenesus, to have presented his moster with the sum of eight hundred talents (about two lumified thousand pounds sterling) to meet the expenses of his History of Aminute, and, enormous us the sum is, it is only in proportion to the accounts we have of the rast wealth acquired by the plunder of the Persian treasures. Pliny also relates that some thousands of men were placed at his disposal for the purpose of procuring mological sperimeno, which served no materials for this celebrated treatise. ' However he acquired his materials, it is becoming shifty more evalent that his work was based on direct knowledge, on actual importion and dissection, not, as in Pliny's case, on what others reported. Several of the most astonishing discoveries of modern naturalists are found to have been distinctly known to Aristotle; and even on each sultle questions as the affinities of animals we are sometimes forced to come round to his classification. 'Thus, in the end,' says Professor Forbes, in summing up his discussion on the classification of Acalephs, 'we revert curiously enough to the views of the affirities of those Animals proposed by Aristotle, who plainly included tader the designation of deallogs, both Actinize and Meducas not from my vague guess, or in compliance with the popular recognition of their resemblance, but from a coreful study of their structure and habits, as the varied notices preserved to us in the first, fourth, and tifth, eighth, and ninth books of the History of Asiants powe leyoud question.'t

devicate, pp. 24-28. See also Stahr's article on Aristotle in the Directory of Greek and Roman Diography.

^{*} The story that Aristotle himself accompanied Alexander is now sairce-sally discredited.

[†] Blakedey, p. 68.

I Forben, Monograph of the Nobel-Equil Medican, p. 88. On the subject of Aristotle's evological knowledge generally, see Mayon, desistants Thireknowle, 1855, and De Hinawite, Michiga dia Science de l'Organisation 1845.

After a long interval Aristotle returned to Athens and opened a school in the Lycenus: a school which eclipsed all the others both in numbers and importance. It is enriously illustrative of his reatless virucious temperament that he could not stand still and lecture, but delivered his opinious whilst walking up and down the shady paths of the Lycenus attended by his eager followers. Hence his disciples were called the Walking Philosophers: Peripatotics.

Mr. Blakesley thinks that it was Aristotle's delicate health which, combined with the wish to contourise time, induced him to become while walking. Diogenes Laurtius attributes its origin to a regard for the health of his papel, Alexander. The point is unimportant; enough for us to know that he did lecture while walking to and fro along the shady paths of the Lyceum. Protagoras, as Mr. Blakesley reminds us, is represented by Plato as teaching in the same way; although not perhaps so systematically as Aristotle.

His lectures were of two kinds: arientific and popular: acrossmatic or acrossic, and profesic. The former were for the more adranced students, and those who were capable of pursuing scientific subjects; he delivered these in the attenting. The latter were afternoun lectures to a much larger class, and treated of popular subjects; rhotoric, politics, and sophistics. Much learning and ingenuity has been thrown away in the endeavour to determine the precise nature of those two kinds of instruction; but we cannot here discuss it. Those who conclude that the distinction between the esoteric and materic was a distinction of doctrine seem to us in error; the distinction was, as above stated, purely that of subject-matter. Dislectics and Poetics are not addressed to the same heavers.

He speak a long laborous life in the pursuit of knowledge, and wrote an incredible number of works, about a fourth of which it is calculated are extant; the division, arrangement, and authenticity of which has long been a pet subject of contention amongst scholars; but, as no agreement has yet been effected, we should have to swell our pages with arguments rather than results.

The influence these works, sparious as well as genuine, have excertised on European culture, is inculculable, and we shall be reafter have to speak of the tyranny of this influence. Nor was it alone over European enliure they exercised a despetie sway. 'Translated in the fifth century of the Christian era into the Syriae language by the Nestorians who field into Persia, and from Syriae into Arabic four hundred years later, his writings furnished the Mohammedan conquerors of the East with a germ of science which but for the effect of their religious and political institutions might have shot up into as tall a tree as it did produce in the West; while his logical works, in the Latin travolation which Boethius," the last of the Roman," bequeathed as a legacy to posterity, formed the basis of that extraordinary phenomenon, the Philosophy of the Schoolean. As emptre like this, extending over novely twenty contaries of time, sometimes more sometimes less despotically, but always with great force, recognized in Bagdad and in Cordora, in Egypt and in Bastain, and leasing abundant traces of itself in the language and modes of thought of every European nation, is assuredly suchon a parallel."

§ H. ARDTOTLE'S METHOD.

Plato and Aristotle may be said to contain all the speculates philosophy of Grecor: whose knows them, knows all that Grecohad to teach. It is not our plan to draw comparisons between the greatness of two great men, otherwise these two would famish a happy subject. We have endeavoured to point out in what my Plato advanced the Philosophy of his age. We have now to do the same by Anstotle.

Aristotle was the most learned man of antiquity, but this learning did not encryate the vigour of his mind. He studiously sought, both in books and in external nature, for materials wherevide to build a doctrine. Before laying down his own views he always esamines the views of his predecessors with tedious minuteness; and his own equations often seem brought out in his criticisms rather than dogmatically affirmed. Hence some have declared his Method to be the historical Method; a miscenception and to be worsked at when we consider the abundance of historical detail, and the absence of any express definition of his Method in his writings.

Unlike Plato, Aristotle never mentions the nature of his Method; but he has one, and we must detect in. We may expect to find it somewhat resembling that of his master, with some modifications of his own. Plato, as Van Hensde, in the India Platonica remarks, stands a middle point between Socrato and Aristotle. The Method of Socrates was one of Investigation; that of Aristotle was see of Demonstration. The Definition and Induction of Socrates were powerful, but vague; the Syllogism of Aristotle rendered the

[·] Bisholey, p. i.

powerful and precise. Pinto, as it were, fills up the gap between these two thinkers; by the addition of Analysis and Classification he reduced the Socratic Method to a more systematic form, and gave it precision. Where Plate left it, Arbeitle took it up; and, by still further modifications, all of which had but one aim,—i.e. greater precision,—in gave it a solidity which enabled it to endure for contunity.

Wherein did Plato and Aristotle fundamentally differ? Until the time of Hogel the general explanation of this difference was briefly to this effect: Plato is an Idealist, Aristotle a Materialist; the one a Rationalist, the other an Empiric; one trusting solely to Beason, the other solely to Experience. This explanation Hegel refuted by showing, that although Aristotle Inid more stress upon experience than did Plato, yet be also expressly taught that Reuson alone could form science."

Let us, then, try if we can penetrate the real difference. And to do so, we must first usk. What was the fundamental position of the Platonic doctains? That question admits of but one answer. The root of Plato's philosophy is the theory of Ideas, whereby Dinlecties became science. If here Aristotle be found to agree with his master, there can be no fundamental difference between them; if here he be found to differ, we may be able to deduce from it all other differences.

Aristotic radically opposed the Ideal theory; and the greater part of his criticisms of Plate are criticions of that theory. He does not dony to Ideas a subjective existence : on the contrary, he makes them the materials of seigner, but he is completely opposed to their objective existence, calling it an empty and poetical metaphoe. He sure, that on the supposition of Ideas being Existences and Models, there would be several Models for the same Thing; since the same thing may be classed under several heads. Thus, Secretes may be classed under the Ideas of Secretes, of Man, of Arrival, and of Biped; or Philosopher, General, and Statesman. The 'atout Staginte' not only perceived the logical error of the Ideal theory, but also saw how the error originated. He profoundly remarked, that I deas are nothing but productions of the Beason, separating, by a logical abstraction, the particular objects from those relations which are common to them all. He saw that Plate had mistaken a subjective distraction for an objective

^{*} Hegel, Guickinkte der Philip in 311 sy.

one; had mistaken a relation, which the understanding perceived between two objects, for the evidence of a separate existence. The partianss of the theory of Ideas, Aristotle likens to those who, lasting to enumerate the exact number of things, commence by intreasing the number, as a way of simplifying the calculation. In this caustic illustration we may see the nature of his objection to the Platonic doctrine. What, indeed, was the Ideal theory, but a noshipheation of the number of Existences? Men lead before imagined that things were great, and heavy, and black or brown. Plato separated the qualities of greatness, weight, and colour, and male these qualities new existences.

Having disproved the notion of Ideas being Existences,—in other words, of General Terms being anything more than the expressions of the Relations of individual things,—Aristotle was driven to maintain that the Individual Things alone existed. But, if only individuals exist, only by sensation can they be known; and, if we know them by sensation, how is the Universal, to suffice, ever known—how do we get abstract ideas? This question was the more pertinent because science could only be a science of the Universal, or, as we moderns say, a science of general truths; now masmach as Aristotle agreed with Plato in maintaining that sense carnot furnish us with science,* which is always founded on general truths (Universals), it was needful for him to show how we could gain scientific knowledge.

Plato's solution of the problem has already been exhibited; it was
the ingenious doctrine of the soul's reminiscence of a former approheuseon of truth, awakened by those traces of Ideas which sensetion discovered in Things. This solution did not satisfy Aristotle.
He, too, was aware that reminiscence was indispensable; but by
if he meant reminiscence of previous experience, not of an interior
state of existence in the world of Ideas. By sensation we perceive
particular things; by induction we perceive the general in the particular. Sensation is the basis of all knowledge: but we have
another faculty besides that of sensation; we have Memory. Having perceived many things, we remember our sensations, and by
that remembrance we are enabled to discern wherein things resemlife and wherein they differ; and this Memory then becomes in art
whereby a general conception is formed: this art is Induction. The
natural method of investigation, he says, is to collect all the facts

[&]quot; disabit Port, i. 21.

or particulars, and afterwards deduce from these the general causes of all things and their actions.* This is necessplished by Induction, which he uptly calls the pathway from particulars to generals—simply) by \$\delta\$ will substant and anti-hou operated and men is, that the former, although they have Memory, have no Experience; that is to say, have not the art which converts Memory into Experience the art of Induction. Man is the reasoning animal.

That Aristotle meant Induction by the art of which he speaks as furnished by experience, may be proved by one luminous passage of the Metophysics: 'Art commences when, from a great number of Experiences, one general conception is formed which will custome all similar cases.'! And, lest there should be any misunderstanding of his definition, he proceeds to illustrate it. 'Thus, if you know that a certain remedy has cured Callius of a certain discuse, and that the same remedy has produced the same effect on Socrates, and on arreral other persons, that is Experience; but to know that a certain remedy will cure all persons attacked with that discuss is Art' for Experience is the knowledge of individual things (rain audiences); Art is that of Universals (rain audience).'

The commesicement of Positive Science—the awakening to an appreciation of the nature and processes of Science-lies in that passage. In the Socratic conception of Induction we saw little more than Analogical Brasoning; but in this Aristotelian conception we see the Collection of Instances, and the generalization from those Instances which Science claims as part of its Method. Nor was this a random guess of the old Staginte's: it was the logical deduction from his premisses respecting knowledge. Hear him again; Experience farnishes the principles of every science. Thus Astronount is grounded on observation; for, if we were properly to obserry the celestial phenomena, we might desassutente the hora which regulate them. The same applies to other sciences. If we said nothing that observation can afford as respecting phonourus, my could easily furnish the demonstration of all that admits of being demonstrated, and illustrate that which is not susceptible of demonstration.' And, in snother place, when abandoned in his investi-

^{*} Rid. comp. and Hist. Asimal i. 6.

⁺ Dayle, I. 10 a comp, what Coloralge ears on Method in a path of Trumit, Discourse on Method affined to Encycles, Metropolitical.

I Pierra le rigre free de robbie en épropies foreme entitée plus Yourse part rûs épalue érologique Met 1. 1. 3 Analyt Princ. 1.30.

gation by phenomeno, he will not becard an assertion. "We must wait," he says, "for further phenomena, since phenomena are more to be trusted than the conclusion of reason."

Looked at in a general way, the Aristotelian Method seems to be the Method of positive Science; but on closer meditation we shall detect their germinal difference to be the omission in Aristotle of the principle, as much invisted on in the Introduction to this History, namely, the rigorous Verification of each infactive stea. The value of the truth expressed by a Syllogism does not consist solely in its accurate distribution, but also in the accuracy of its major premise we now form mexceptionable Syllogisms which shall be atsumlly erroncous, as when when we say, All black binds are crows; This bird is black; ergo, This bird is a crow. In the physical and metaphysical speculations of the arcients, we are constantly meeting with syllogisms as perfect as this, - and as also surd; because the ancients generally three their incremity into logical deduction, and sourcely ever into preliminary verification. When Aristotle therefore lars down as a canon the necessity of ascertaining generals from an examination of particulars, his cononadmirable indeed, ageds to be accompanied by a distinct recognition of the equal necessity of verification. Contrasted with the Platenic Method, Aristotle's is seen to great advantage. Plate believing that the stimulus awakened by a single idea would enable a man to arrive at the knowledge of all ideas, in consequence of the necessary connection supposed to exist between them, could very well dispense with Induction. But Aristotle maintained that the completeness of knowledge is only obtainable through completeness of experience; every single idea is awakened in us by a separate sensation, and only on a comparison of like and unlike in phewmena are differences perceived. He complains of Plato, very justly, for neglecting details in haste to judge of universals.

Aristotle had therefore a novel and profound conception of sciratific Method; but because he did not—and indeed in that age could not—confine himself to Experience and the generalizations of Experience, he could not effectually carry out his own scheme. His emception was just; but the application of such a Method could have led him only a short way, because there was not sufficient Experience then accumulated, from which to generalize with any effect. Hence his speculations are not always carried on upon the Method which he himself had down. Impatient at the insufficiency of facts, he jumps to a conclusion. Eager, as all men are, to solve the problems which present themselves, he solved them à priori. He applied his Syllogism before he had scriffed the exactitude of his premisses.

The distinction between Aristotle and Plato is, that while both admitted that science could only be formed from Universals, via asolikus, Aristotle contended that such Universals had purely a subjective existence, i. e. that they were nothing more than the instantions derived from particular facts. He, therefore, unde Experience the basis of all Science, and Beason the Architect. Plato mule Beason the basis. The tendency of the one was to direct man to the observation and intervogation of Nature; that of the other was to direct man to the contemplation of Ideas.

The distinction between Aristotle and Buson is, that while they both insist upon the observation and generalization of facts, as alone capable of furnishing correct ideas, Aristotle believed that he could observe those primary facts of Existence and Cause, which Bacon wisely declared beyond the human han. While both insisted on the necessity of experience, while both saw that the science of the 'general' must be framed from the inductions of the particular, they differed profoundly as to the nature of that 'general.' Bacon understored in particular facts to trace the general base: Aristotle endeavoured in particular facts to trace the general base.

To understand this, we must cast a glance at Aristotle's Logic.

§ III. Austroria's Louis.

It is often remarked, that Aristotle's use of the word Dialectics differs from Piato's use of it. Indeed, with Plato, dialectics was the science of Being; with Aristotle, it was no more than the instrument of Thought. But it is highly necessary that we should clearly understand the position occupied by Logic in the Aristotelian philosophy; the more so as after-ages prized the Logic above all his other works.

Logic is the seizner of Affirmation; Affirmation is the netive operation of the Mind on that which sensation has presented to it; in other words, Affirmation is Thought. Affirmations may be true or false; there can be no falsehood in Sensation. If you have a sensation of an object, it must be a true sensation, but you may affirm something false of it. Every single thought is true; but, when you connect two thoughts together, that is, when you affirm something of another thing, you may affirm that which is false. Everything therefore that you think about may be reduced to a Proposition; in fact, thoughts are a series of Propositions. To understand the whole nature of Propositions—to understand the whole Art of Thinking—is the province of Logic.

By a very natural confusion, Aristotle, thus convinced of the importance of language, was led to maintain that truth or falsehood did not depend upon things, but upon words, or rather upon combinations of words-upon Propositions. Logic therefore to him, as to Plato, though in a different way, became the real Occanon of Science. But, as John Mill remarks, the distinction between real and nominal definitions, between definitions of words and what are called definitions of things, though conformable in the ideas of most Aristotelian logicians, cannot, as it appears to us. be unintained. We apprehend that no definition is ever intended to explain and unfold the nature of the thing. It is some confemation of our opinion that none of those writers who have thought that there were definitions of things have ever successful in hiscovering any criterion by which the definition of a thing can be distinguished from any other proposition relating to that thing, The definition they say unfolds the nature of the thing; but no definition can unfold its whole nature; and every proposition in which my quality whatever is predicated of the thing malolds some part of its nature. The true state of the case we take to be this: All definitions are of names and of names only; but, is some definitions, it is clearly apparent that nothing is intended except to explain the meaning of the word; while, in others, besides explaining the meaning of the word, it is intended to be implied that there exists a thing corresponding to the word. Whether this he or be not implied in any given case, cannot be collected from the merform of expression. " A centure is an unimal with the upper parts of a man and the lower parts of a horse," and "a triangle is a rectifincal figure with three sides," are, in form, expressions precisely similar; although in the former, it is not implied that any thing conformable to the term really exists, while in the latter it is; as may be seen by substituting, in both definitions, the word means for is. In the first expression, "a centaur steme as animal," etc., the sense would remain unchanged; in the second, "a triangle mems," etc., the meaning would be altered, since it would be elsviously impossible to deduce any of the truths of geometry from a proposition expressive only of the minner in which we intend to employ a particular sign.

"There are, therefore, expressions commonly passing for defini-

tions which include in themselves more than the mere explanation of the meaning of a term. But it is not correct to call an expression of this sort a peculiar kind of definition. Its difference from the other kind consists in this, that it is not a definition, but a definition and something more. The definition given above of a triangle, obviously comprises not one, but two propositions, perfectly distinguishable. The one is, "There may exist a figure bounded by three straight lines;" the other, "and this figure may be termed a triangle." The former of these propositions is not a definition at all; the latter is a mere nominal definition or explanation of the use and application of a term. The first is susceptible of truth or falsehood, and may therefore be made the foundation of a train of reasoning. The latter can neither be true nor false; the only character it is susceptible of, is that of conformity or disconformity to the ordinary usage of language.

"There is a real distinction, then, between definitions of names and what are erroneously called definitions of things; but it is that the latter, along with the meaning of a name, coverily asserts a matter of fact. This covert assertion is not a definition, but a postulate. The definition is a mere identical proposition, which gives information only about the use of language, and from which no conclusions respecting matters of fact can possibly be drawn. The accompanying postulate, on the other band, affirms a fact which may lead to consequences of every degree of importance. It affirms the real existence of things possessing the combination of attributes set forth in the definition; and this, if true, may be foundation sufficient to build a whole fabric of scientific trath."

This profound and hummous distinction was not seen by Aristotle, and his whole system was vitiated in consequence of the opersight. He thought that Logic was not only the Instrument of Thought, but, as such, the Instrument of investigating Couses. In his Logic the first place was occupied by the celebrated Categories. They are ten in number, and are as follows:—

niosa		6				ij.		Salamus.
Heres		Ŋ.	٧					Quality
Hoice					-	×		Quality.
Holy rl		О				9	-	Relation.
Bostie		¥.	-	+	-	×		Artisa.
Magne			0					Patrick
13.0								The referen

Hore . The when.

Keirthe . Postmen in space.

There . Postmen in space.

These Categories, or, as the Latin writers say, Predicaments, were intended to be an enumeration of those classes or general, under some of which everything was to be reduced. They were left to be the most universal expressions for the various relations of things; they could not further be sonlyzed, but remained the fundamental definitions of things. It is, however, as has been remarked, a more catalogue of the distinctions radely marked out by the impagage of familiar life, with little or no attempt to penetrate, by philosophic analysis, to the redicasele even of those common distinctions. Such an analysis, however apperficially conducted, would have shown the connecration to be both redundant and defective. Some objects are control, and others repeated several times under different heads. It is like a division of anamals into non, quadrapeds, horses, asses, and ponics.

The remark is just, and would have been admitted as just by Aristotle binoself, since he does not pretend the classification is complete, but confesses that the same object may, under different categories, be at once a quality and a relation. But Aristotle does not usually ascribe much importance to this commention of the most general notions; so that we may regard it as nothing more than an attempt to exhibit in a clear light the signification of worls taken absolutely, in order to show how truth and takehood emaint in the right or wrong combination of these elements.

However imperfect this attempt at classification may be, it was

held to be a satisfactory attempt for many centuries; nor sas any one hold enough to venture on another until Knut, who, as we shall see, had quite a different object. We have not here to entirine it, but to exhibit its historical position. The idea of examining the forms of thought could scarcely have originated tradier. Previous speculators and occupied themselves with importes into the originate of knowledge: Aristotle saw that it was from to impore into the necessary forms of thought. To do this, to analyze the

in all its denals, is the object of his hogic.

various processes of the mind, and to exhibit the 'art of thinking'

^{*} Mill's Nutten of Empley is 90.

⁺ Kimer, (ii. 66, where also will be found the authorities for the previous sentence.

Some had declared sense-knowledge for be described; others had declared that sense-knowledge som perfectly faithful, as for as it went, but that it was incapable of penetrating beneath phenomena. Sceptiosom was assuming a minaring attitude. Aristotle, in his way, endeavoured to meet it, and so met it that: It is true that the knowledge derived from our senses is not always correct; true also that our senses are to be trusted, as for as they go. A sensation, as a sensation, is true; but any affirmation you may make about that sensation may be either true or false, according to the affirmation. If an our dispers in the water appears to you to be broken, the sensation you have is according to that sensation. But if, on the strength of that sensation, you affirm that the our is broken, your affirmation is false. Error lies not in false sensation, but in false affirmation.

Like Plate, he held it to be indispensable to understand words if no are to understand thoughts; a position which, so we saw in the teaching of Socrates, was both rovel and at the time important, because it called attention to the extreme laxity of language under which men disguised the laxity of their reasoning. A word, he said is in itself indifferent; it is neither true nor false: truth or falselesed must result from a combination of words into a proposition. No thought can be erroscous; error is only possible to propositions.

Hence the necessity of Logic, which is the arience of affirmations; it is us the Enunciate Proposition, Jeropartock, Adyne, that we must seek truth or falsehood. This proposition is subdivided into Affirmative and Negative Propositions, which are mutually opposed, and give rise to Contradiction so soon as they are asserted in the same tense of one and the same thing: e.g. 'It is impossible for the same thing to be and not to be.'

The principle of Contradiction he declares to be the deepest of all; for on it all Demonstration is founded. Because, however, he confounded truth of Language with truth of Thought, and supposed that Thought was always the correlate of Part, he fell into the mistake of maintaining truth of Language, or Propositions, to be identical with truth of Being. He did not recognize the fact that we can frame Propositions which shall be based on the principle of Contradiction, and which shall nevertheless be false.

Having spected Propositions, or the allimative and negative combinations of Language, into such an exalted position, it became necessary to attend more closely to name, and thus we get the Predicables, a fivefield division of general Names, not granded, as usual, upon a difference in their meaning, that is, in the attribute which they cosmote, but upon a difference in the kind of class which they denote. We may predicate of a thing five different variation of class-name:—

Tires					a Green.
Killer .	 н	-	 		a Specim
Simport .					a Difference.
15				-	a Property.
Sandy Spain					an Accident.

'It is to be remarked of these distinctions that they express not what the predicate is in its own meaning, but what relation it bears to the enlight on which it happens on the particular occasion to be predicated. There are not some names which are exclusively general and others which are exclusively species or differentia; but the same name is referred to one or mother Predicable, according to the subject of which it is predicated on the particular occasion, durinol, for instance, is a genus with respect to Man or John; a species with respect to substance or Bring. The words group, species, etc. are therefore relative terms; they are names applied to tertain predicates, to express the relation between them and some given subject; a relation grounded, not upon what the predicate express, but upon the class which it denotes, and upon the place which in some given classification that class occupies relatively to the particular subject."

Induction and Syllogism are the two great instruments of his Logic. All knowledge must rest upon some anterestent conviction; and both in Induction and Syllogism we see how this takes phon-Induction sets out, from particulars already known, to unive at a conclusion; Syllogism sets out, from some general principle, to arrive at particulars.) There is this remarkable distinction, however, established by him between the two, namely, that the general principle from which the syllogism proceeds is better bases in itself and in its own nature, while the particulars from which Induction proceeds are better known to us.) How came he by this surprising distinction? Thus, the particulars of Induction are derived from Sense, and are more liable on that account to error; whereas the

^{*} Mill. Spiritur of Logic, i. 102.

T. fastyt, Post a L.

² From pile of emirgor od propagatejor i dal rei porto aukkaparpis, par I impointant i dal sil decorpio - dastiri. Prior il 24

general principle of the Syllogism is known in itself, is further removed from the fallocies of sense, and is said too hope you push typer. Do we not always doubt whether we have rightly understood anything until we have demonstrated that it follows by necessity from some general principle? And does not this lead to the consiction that the Syllogism is the proper form of all science? Moreover, as the Syllogism proceeds from the general, the general must be better known than the particular, since the particular is proved by it.

Aristotle here lands us on a jugged reef of paradox: that which is better known to us is of less value than that which is known in itself. Sensations are less trustwortly than ideas. The particulars are sensibles, but in and for themselves they are nothing; they exist only in relation to us. Nevertheless we are feeced to make them our point of departure. We begin with sensoons knowledge to reach ideal knowledge. In this manner we proceed from the world of experience to that higher world of experience.

The various investigations into the nature of Propositions which Armtotle prosecuted, were necessary to form the basis of his theory of reasoning, i. e. the Syllogism. He defined the Syllogism to be an enunciation in which certain Propositions being hid down, a necessary conclusion is drawn, distinct from the Propositions and without employing any idea not contained in the Propositions. Thus:—

> All had arm are miscrable; Every tyrast is a had man ergo, All tyrasts are miscrable.

His examination of the sixteen forms of the Syllogism exhibits great ingenuity, and, as a dialectical exercise, was doubtless sufficient; but it must not detain us here. The theory of the Syllogism is succeeded by the theory of Demonstration. If all knowledge turns its existence to anterior knowledge, what is this anterior knowledge? It is the assist proposition of a Syllogism. The conclusion is but the application of the general to the particular. Thus, if we know that Tyrants are miscrable, we know it because we know that All bad men are miscrable; and the middle term tells us that Tyrants are bad men. To know, is to be aware of the cause; to demonstrate, is to give the Syllogism which expresses the knowledge we have. It is therefore necessary that every scientific Syllogism should repose upon principles that are true, primitive, more evaluat

in themselves than the conclusion, and unterior to the conclusion. These undemonstrable principles are Axious, Hypotheses, etc., as-conding us they are self-exident, or as they presuppose some affirmation or negation; they are Definitions when they limit themselves to an explanation of the ossence of the thing defined, without affirming anything respecting its existence.

The proper subjects of demonstration are those universal attributes of particular things which make them what they are, and which may be predicated of them. It is one thing to know that a thing is so; another thing to know only it is so; hence the inuorders of demonstrations, the role ora, 'the demonstration of the cause from a consideration of the effect,' and the role of the inmonstration of the effect from the presence of the cause.'

We close this exposition of the leading points of Aristoth's Logic with his own somewhat touching words, as he concludes his work: 'We have had no works of predecessors to assest to in this attempt to construct a science of Reasoning; our own labours have done it all. If, therefore, the work supears to you not too inferior to the works on other sciences which have been formed with the mentance of successive labourers in the same department, you will show some indulgence for the imperfections of our work, and some gratitude for the discoveries it contains.'

\$ IV. ARISTOTLE'S METAPHENDS.

The problem which the early thinkers had not themselves to solve was that of the First Cause. Aristotle mointained that there were Four Causes, not one, and each of these must be taken into consideration. The four Causes were as follows:—I. The Mannial Cause, the Essence, vò vi ije còsus,—the Invariable Existence, which philosophers so variously sought. Perhaps 'Essence' in the last translation of the phrase. II. The Substantial Cause, becoming the 'Substance' of the Schoolmen. III. The Efficient Cause, alogories surjectes, 'the Principle of Motion.' IV. The Final Cause, vicò-ciosa soi viryation,' the Purpose and End.' These Causes were all recognized separately by the early speculators, but no one had recognized them as connected, and as all necessary.

Aristotle is right in his criticism on his perdecessors; but his own theory is extremely vicious. It makes speculation subsedinate to logical distinctions; it makes the Unterportes the great unstanaent of investigation; and it engine that spine of meless

and quibbling distinction which was the characteristic view of the schoolmen, who were almost all ferrent Aristotelians. In one word, the namer Aristotle approached to systematic precision, the wider he wandered from sound principles of inquiry. And this because of his fundamental error in supposing that Logic was an Organon, i.e. that subjective distinctions must accord with objective distinctions. In consequence of which, instead of interpogating Nature he interrugated his own mind.

This may seem at variance with his notion of the necessity of sense-experience, and at variance with his Method ; but, as we before observed, the rigorous application of his Method was hardy possible; and, however excellent as a precept, it was so vague as to be almost inevitably vitated in practice. The process of villation was this: Experience was necessary, as affording the materials for Reason to work with. Any reasoning not founded on a knowledge of phenomena must be false; but here was Aristotle's mistake; it by no means follows, that all reasoning founded on a knowledge of phenomena will be true. He thought that Experience could not deprise. But, to make his Method perfect, he should have laid down the rules for testing that Experience-for "interrogating Naturefor discriminating what was pertinent to the question in handfor establishing a proper 'experimentate cracie.' Thus 'facts,' as they are called, are notoriously valuable in proportion only to the value of the scriffication to which they have been submitted. People talk of "facts' as if facts were to produce irresistible consistions; whereas facts are sescrptible of very various explanations, and, in the history of science, we find the facts constant, but the Mearies changing that is to say, Nature has preserved one uniform course, her erdinary operations are open to all men's inspection, and men have endeavoured to explain these operations in an culless variety of ways. Now, from a want of a proper knowledge of the conditions of scientific inquiry, Aristotle's Method became fruitless, The facts collected were vitiated by a false theory; his sense-experience was wrougly interpreted.

It is time, however, to give his minition of the great metaphysical problem of Existence. Matter, he said, exists in a threefold form. It is,—I. Substance, perceptible by the senses, which is finite and perishable. This Substance is either the abstract substance, or the substance connected with form, elder. II. The higher Substance, which, though perceived by the sense, is imperishable; such as are the heavenly bodies. Here the active principle (disprain, actso) steps in, which, in so far as it contains that which is to be produced. is understanding (safe). That which it contains is the perpare (và cổ mont), which purpose is realized in the act. Here we have the two extremes of potentiality and agency, matter and thought. The colebrated sufclerible is the relation between these two extremes, it is the point of transition between Evenue and evenue. and is accordingly the Came of Motion, or Efficient Came, and represents the Soul. III. The third form of Substance is that in which the three forms of power, efficient cause, and effect are united; the Absolute Substance : eternal, unmoved; God himself. God as the Absolute Unmoved Eternal Substance, is Throught. The Uniwerse is a thought in the Mind of God; it is ! God passing into actirity, but not exhausted in the Act." Existence, then, is Thought: it is the setivity of the Divine Reason. In Man the thought of the Divine Reason completes itself, so as to become self-conscious. By it Man recognizes in the objective world his own nature again; for thought is the thinking of thought-lover o rogers, referent rigers.

If we were occupied in this History with the particular opinions of Philosophers, rather than with their Methods and historical position in the development of speculation, we should dwell at some length on Aristotle's distinction between the prissery and according auslities of bodies, which, according to Sir William Hamilton, he was the first to establish," as also on the doctrine of Substantial Forms, which Hamilton save be did not teach (it was the Ambian commentators who misinterperted Aristotle on this point; por should we onit the claim to the discovery of the doctrine of Association of Ideas, which Hamilton has set up for him, with a vast array of Aristotelian eradition, proving indeed that Aristotla did recognize the facts of Association, but by no means proving that be recognized Association as the grand low of intellectual action. Our limits forbid such discursive wanderings from the purpose of this work, and we are forced to leave untouched the very points which is our opinion constitute the pre-eminence of Aristotle. In a listory of Science greater justice could be deno to his sucrelogastic knowledge and marvellous power of systematication. Here we have but to consider him as the philosopher who, comming in himself all the results of ancient speculation, so circlorated them into a

[&]quot; Hamilton's Brid, p. 826.

Should Lever be enabled to complete a long projected plan, of writing in a occapation to the present work, a Discrepational History of Science, I will endeavour to present Scint-the in this light.

en-rediente system, that for twenty centuries he held the world a share.

Plato was a great speculative genera, and a writer unapproached in the art of imaginary conversations busing a solentical purpose; and in most fiferery minds he will ever remain a greater figure than his pupil, Aristotle. But while I concede Plato's immeasurable supemority as a writer, I convice his inferiority as a thinker to be no less marked. Aristotle seems to me to have been the greatest intellect of antiquity, an intellect at more commelensive and subtle, patient, receptive, and original. He wrote on Politics, and the treatise, even in the imperfect state in which it has reached us, in still in many respects one of the best works on the subject. He wrote on Poetry, and the few detached passages which survive are full of valuable details. He wrote on Natural History, and his observations are still valuable, his reflections still suggestive. He wrote on Logic, and for many centuries no one could suggest any ingrayment. "Aristotle," says Hegel, "peaconted into the whole universe of things, and subjected to the comprehension its scattered wealth; and the greatest number of the philosophical sciences one to him their separation and commencement. While in this manuer science separates itself into a series of definitions, the Aristotelian philosophy at the same time contains the most profound succulative ideas. He is more comprehensive and speculative than any our else." While, therefore, the autority will prefer Plato, who, in spite of his difficulties, is much easier to read than Aristotle, yet all must venerate the latter as a grand intellectual phenomenou, to which searcely may parallel our be suggested.

His vast learning, his singular aruteness, the wide range of his investigations, and the astonishing number and the excellence of his works, will always make him a formidable rival to his more faccinating master. 'A student passing from the works of Pinto,' it has been well said,' to those of Aristotle, is struck first of all with the entire absence of that dramatic form and that dramatic feeling with which he has been familiar. The living bassas beings with whom he has conversed have passed away. Protagons, and Prodices, and Hippias are no longer housing upon their couches in the midst of groups of admiring pupils; we have no walks along the walls of the city; no readings beside the Ilisons; no lively symposia, giving occasion to high discourses about lone; no Critiss recalling the stories he had heard in the days of his youth, before he became a tyrent of ancient and glorious republics; above all, no Socrates forming a

centre to these various groups, while yet he stands out clear and distinet in his individual character, showing that the most subtle of dialecticians may be the most thoroughly humanous and humane of men. Some little sorrow for the less of those elser and beautiful pictures will perhaps be felt by every one; but by far the greater portion of readers will believe, that they have an ample compensation, in the precision and philosophical dignity of the treatise, for the richness and variety of the dialogue. To bear rolenn disquistions solemnly treated to hear opinious calmly discussed without the interruptions of personalities; above all, to have a profound and considerate judge, able and not marilling to pronounce a positive decision upon the evidence before him; this they think a great alvantage, and this and far more than this they expect, not wrongly, to find in Aristotle."

^{*} Maurice, Morel and Metaphysical Philosophy.

CHAPTER II.

SUMMARY OF THE SOCRATIC MOVEMENT.

FOR the sake of historical elearness we may here place a few words respecting the position of the Socratic Movement (as we may call the period from the Sophists down to Aristotic) in the history of Speculation.

What Socrates himself effected we have already seen. He appeared during the rei in of atter scepticism. The various tentatives of the early thinkers had all ended in a scepticism, which was turned to dexterous use by the Sophists. Socrates bootshed this scepticism by the invention of a new Method. He withdrew men from the metaphysical speculations about Nature, which had led them into the inextricable confusion of doubt. He bade them look inward. He created Moral Philosophy. The Cyrennics and the Cynics attempted to carry out this tendency; but, as they did so in a onesided manner, their endeavour was only partially successful.

Plato, the youngest and most remarkable of the disciples of Socrates, accepted the Method, but applied it more miversally. Netertheless Ethics formed the most important of his speculations. Physics were only subordinate and illustrative of Ethics. The Truth—the God-like existence—which he for ever besought uses to contemplate, that they might share it, had always an Ethical object: it was sought by man for his own perfection. How to live in a manner resembling the Gods was the fundamental problem which he set himself to solve. But there was a germ of scientific speculation in his philosophy, and this germ was developed by his pupil, Arisectle.

The difference between Socrates and Aristotle is immense: Plato, however, fills up the intercal. In Plato we see the transition-point of development, both in Method and in Doctrine. Metaphysical speculations are intimately connected with those of Ethics. In Aristotle, Ethics only form one branch of philosophy: Metaphysics and Physics nearp the larger share of his attention.

One result of Arastotle's labours was precisely this: he brought Philosophy round again to that condition from which Socrates had

wrested it; he opened the world again to speculation.

Was then the advent of Socrates multified? No. The Socratic Epoch conferred the double benefit on humanity of having first brought to light the importance of Ethical Philosophy, and of having substituted a new and incomparably better Method for the pursued by the early speculators. That Method sufficed for several ocuturies.

In Aristotle's systematization of the Socratic Method, and, above all, in his bringing Physics and Metaphysics again into the region of Inquiry, he paved the way for a new epoch,—the epoch of Serpticism; not the numethodical Scepticism of helpless haffed guessess, like that which preceded Socrates, but the methodical and dogmetic exposure of the emity of philosophy.

EIGHTH EPOCH.

SECOND CRISIS OF GREEK PHILOSOPHY: THE SCEP-TICS, EPICUREANS, STOICS, AND THE NEW ACA-DEMY.

CHAPTER I. THE SCEPTICS.

§ I. Реплио.

In the enrious train which accompanied the expedition of Alexander into India, there was a serious, reflective man, who followed him with purely philosophical interest: that man was Pyrrbo, the founder of the Sceptical philosophy. Conversing with the Gymnosophists of India, he must have been struck with their descent faith in doctrines so unusual to him; and this specialle of a rare of wise and studieds men believing a strange errord, and acting upon their belief, may have led him to reflect on the nature of belief. He had already, by the philosophy of Democritus, been led to question the origin of knowledge; he had learned to doubt; and now this doubt became irresistable.

On his return to Elis he became remarked for the practical philosophy which he inculeated, and the simplicity of his life. The profound and absolute scepticism with which he regarded all speculative doctrines, had the same effect upon him as upon Socratus: it made him insist wholly on moral doctrines. He was resigned and tranquil, accepting life as he found it, and golding himself by the general precepts of common-sense. Socrates, on the contrary, was meany, resilies, perpetually questioning himself and others, despising metaphysical speculations, but eager for truth. Pyrrho, dissatisfied with all the uttempts of his predecessors to solve the great problems they had set to themselves, declared the problems insuluble. Socrates was also dissatisfied; he too declared that he know nothing; but his doubt was an active, eager, questioning doubt, used as a stimulus to investigation, not as a final result of all intestigation. The doubt of Pyrrho was a reprobation of all philo-

sophy; the doubt of Sociates was the opening through which a new philosophy was to be established. Their lives accorded with their doctrines. Pyrcho, the grand Priest of Elia, lived and died in happiness, peace, and universal esteem.* Sociates lived in perpetual warfare, was always unisunderstood, was ridiculed as a sophist, and perished as a blasphemer.

The precise doctrines of Pyrrho it is now hopeless to attempt to recover. Even in antiquity they were so mixed up with those of his followers, that it was found impossible to separate them. We nee forced, therefore, to speak of the sceptical doctrines us they are collected and systematized by that acute and admirable writer, Sextus Empiricus.

The stronghold of Scepticism is impregnable. It is this There is no Criterious of Truth. After Plato had developed his Ideal Theory, Aristotle crushed it by proving it to be purely suffective. But then the theory of Demonstration, which Aristotle placed in its stead, was not that equally nel/certire? What was this boasted Logic, but the systematic arrangement of Ideas obtained originally through Sense? According to Aristotle, knowledge could only be a knowledge of phenomena; although he too wished to make out a science of Causes. And what are Phynomena? Phenomena are the Appearances of things. But where exists the Criteriou of the truth of these Appearances? How are we to meertain the exactitude of the accordance of these Appearances with the Things of which they are Appearances? We know full well that Things appear differently to us at different times; appear differently to different individuals; appear differently to different animals. Are my of these Appearances true? If so, which are? and how do you know which are true?

Moreover reflect on this: We have five senses, each of which reveals to us a different quality in the object. Thus an Apple is presented to us: we see it, smell it, feel it, taste it, hear it bitten; and the eight, smell, feeling, taste, and sound, are five different Appearances—five different Aspects under which we perceive the Thing. If we had three Senses more, the Thing would have three qualities more; it would present three more Appearances: if we had three Senses less, the Thing would have but three qualities less.

[&]quot;All the storpes about him which protend to illustrate the effects of his requirement is real life are too trivial for refusation, being obviously the investion of these who thought Pyrrico ought to have been consequent in absorption.

Are these qualities sobally and entirely depended upon our Senser, or do they really appertuin to the Thing? And do they all appertuin to it, or only some of them? The differences of the impressions made on different people seem to prove that the qualities of things are dependent on the Senses. Those differences at any rate show that things do not present one uniform series of Appearances.

All we can say with truth is, that Things appear to us in such and such a minner. That we have Sensations is true; but we cannot say that our Sensations are true integer of the Things. That the Apple we have is brilliant, round, odorous and sweet, may be very true, if we mean that it appears such to our senses; but, to keener or duller vision, scent, tact, and taste, it may be dull, rugged, offensive, and insipid.

Amidst this confusion of sensuous impressions, Philosophers protend to distinguish the true from the false; they assert that Reason is the Criterium of Truth; Beason distinguishes. Plato and Aristotle are furein agreed. Very well, reply the Sceptics, Reason is your Criterium. But what proof have you that this Criterium itself distinguishes truly? You must not return to Sense; that has been already given up; you must rely upon Beason; and we ask you what proof have you that your Beason never erro? what proof have you that it is ever correct? A Criterium is wanted for your Criterium, and so on oil inflution.

The Scepties maintain, and justly, that because our knowledge is only the knowledge of Phenomena, and not at all of Nonmena,—because we only know Things as they appear to us, not as they really ave.,—all attempt to practicate the mystery of Existence must be vain; for the attempt can only be made on appearances. But, although attained Truth is not attained by mon, although there cannot be a science of Being, there can be a science of Appearances. The Phenomena, they admit, are true as Phenomena. What we have to do is therefore to observe and classify Phenomena; to trace in them the resemblances of esexistence and succession, to trace the connections of cause and effect; and, having done this, we shall have founded a Science of Appearances administ to our wants.

But the age in which the Sceptics lived was not tipe for such a conception: accordingly, having proved the impossibility of a science of Being, they supposed that they had established the impossibility of all Science, and had destroyed all grounds of certitude. It is worthy of generic that motion Sceptics have added nothing which is not implied in the principles of the Pyrchonists. The arguments

by which Home thought he destroyed all the grounds of certitude are differently stated from those of Pyrrko, but not differently founded; and they may be answered in the same way.

The Secretics had only a negative docurrent; consequently, may a negative influence. They corrected the tendency of the mind towards accepting its conclusions as adequate expressions of the facts; they served to moderate the impetuosity of the speculation spirit; they showed that the pertended Philosophy of the day was not so firmly fixed as its professors supposed. It is enrious, indeed. to have witnessed the gigantic efforts of a Socrates, a Plato, and an Aristotle, towards the reconstruction of Philosophy, which the Suphists had brought to mins-a reconstruction, too, on inforent ground-and then to witness the hand of the iconoclast smiling down that image, to witness the pitiless logic of the Sceptic undermining that laboriously-constructed ediffer, leaving nothing in its place but another heap of ruins, like that from which the edifice was hold; for, not only did the Scepties refute the notion that a knowledge of Appearances could ever become a knowledge of Existence, not only did they eshibit the fallacious nature of sensation. and the want of certified in the affirmations of Resson, they also attacked and destroyed the main positions of that Method which was to supply the ground of cortifude; they attacked Induction and Definitions.

Of Induction, Sexton, in one brief, pregnant chapter, writes thus:— Induction is the conclusion of the Universal from indisdual things. But this Induction can only be correct in as far as all the individual things agree with the Universal. This universality must therefore be verified before the Induction can be made a single case to the contrary would destroy the truth of the Induction."

We will illustrate this by an example. The whiteness of swam shall be the Induction. Swams are said to be white because all the individual swams we may have seen are white. Here the Universal (whiteness) seems induced from the particulars; and it is true in as far as all particular swams are white. But there are a few black swams; one of these particular black swams is sufficient to destroy the former Induction. If, therefore, says Sextus, you are not able to verify the agreement of the universal with every particular, i.e.

^{*} Pyrelon. Hypot, vol. ii. c. xr. p. bk. The column we use in the Para folio of 1021, the first of the Greek text.

if you are not able to prove that there is no swan not black, you are unable to draw a certain and accurate Induction. That you cannot make this verification is obvious.

In the next chapter Sextus examines Definitions. He pronounces them perfectly nucleus. If we know the thing we define, we do not comprehend it because of the definition, but we impose on it the definition because we know it; and if we are ignorant of the thing we would define, it is impossible to define it.

Although the Scritics distroyed the degrantism of their preferences, they did not substitute my degrantism of their own in its place. The unture of their scripticism is lappily characterized by Sextus in his comparison of them with Democritus and Protagoras. Democritus had insisted on the uncertainty of scase-knowledge; but he concluded therefrom that objects had no qualities at all resembling those known to us through sensation. The Scriptics contented themselves with pointing out the uncertainty, but did not pronounce decesively whether the qualities existed objectively or not.

Protagoras also invisted on the uncertainty, and declared man to be the measure of trath. He supposed that there was a constant relation between the transformations of matter and those of sensation; but these suppositions he affected dogmatically; to the Sceptic they are uncertain.

This general incertitude often betrayed the Scepties into hafterous dilenames, of whoch usany specimens have been preserved. Thus they said, 'We assert nothing—no, not even that we assert nothing,' But if the reader wishes to see this distinction between a thing seeming and a thing heisy, rificulted with a truly counte gusto, he should turn to Molière's Mariege Force, art i. sc. 8. Such follies form no portion of our subject, and we leave them with some pleasure to direct our attention to more worthy efforts of human ungenerity.

CHAPTER II. THE EPICUREANS.

§ L. EPHUBUS.

THE Epicureaus are condumned in their names. We before noticed how the meaning attached to the name of Sophest inadverteatly gives a bias to every judgment of the Sophist School, and readers it extremely difficult to conceive the members of that School otherwise than as shanckess regues. Equally difficult is it to shake off the influence of association with respect to the Epicureau, although historians are now perity well agreed in believing Epicurea to have been a man of pure and cirtuous life, and one whose dectrimes were moderate and really incolenting absteniousness.

Epicurus was born Oi. 169 (n. c. 342), at Samos, according to some; at Gargettus, in the vicinity of Athens, according to others. His parents were poor, his father a teacher of grammar. At a very early age, he tells us, his philosophical career began; so early as his thirteenth year. But we must not misunderstand this statement. He dates his career from those first questionings which occupy and peoplex most young minds, especially those of any superior capacity. He doubtless refers to that period when, boy-like, he pussled his teacher with a question beyond that teacher's power. Hearing the verse of Hesiod wherein all things are said to arise from Chara, Epicurus asked, "And whence came Chaos?"

"Whence come Chaos?" Is not this the sort of question to occupy the active mind of a boy? Is it not by such questions that we are all led into philosophy? To philosophy he was referred for an explanation. The writings of Democratus fell in his way, and were eagerly studied; the writings of others followed; and, his vocation being fixed, he sought instruction from many masters. But from all these masters he could gain no solid convictions. They gave him hints; they could not give him Truth; and working upon the materials they formished, he produced a system of his sem, by which we presume be justified his claim to being self-taught.

His rarly years were agetated and unsetfled. He visited Athens

at eighteen, but remained there only one year. He then passed to Colophon, Mitylene, and Lumpsacus. He returned to Athens in his six-and-thirtieth year, and there opened a school, over which he presided till his death, Ot. 127 (e. c. 272).

The place he chose for his school was the famous Garden, a spotpleasantly typical of his doctrine. The Platonists had their Academic Grove; the Aristotelians walked along the Lyceum; the Cynics growled in the Cynosarges; the Stoics occupied the Porch; and the Epicureaus had their Garden.

Here, in the tranquil Gurden, in the society of his friends, he passed a peaceful life of speculation and enjoyment. The friendship which existed amongst them is well known. In a time of general starcity and finnine they contributed to each other's support, showing that the Pythagorean notion of community of goods was unaversoary amongst friends, who could confide in each other. At the entrance of the Garden they placed this inscription: 'The hospitable keeper of this massion, where you will find pleasure the highest good, will present you liberally with barley-cakes and water fresh from the spring. The gardens will not procede your appetite by artificial dimities, but satisfy it with natural supplies. Will you not be well entertained?'

The Gardon has often been called a sty; and the same of Epicorean has become the designation of a sensualist. But, in suite of his numerous assailants, the character of Epicurus has been rescued from contempt, both by ancient and by modern critics. Diogenes. Lagrans, who gives some of the accountions in detail, easily refutes them by an appeal to facts; and the modern writers have been at no loss to discover the motive of the ancient calumnies, which mostly proceeded from the Stoics. A destrine like that of Epicarus would, at all times, lend itself to gross misrepresentation; but in an epoch like that is which it appeared, and contrasted with a doctrine so firredy opposed to it as the doctrine of the Stokes, we cannot wonder if the bitterness of opposition translated steelf into bitter calemay. It is one of the commonest results of speculative differences to make us attribute to our opposent's opinions the consequences which are deduce from them, as if they were indulitably the consequences he deduces for himself. Our opinions are conducive to sound morality: of that we are consinced; and being so convinced, it is natural for us to believe that contrary opinious must be immoral. Our opprount holds contrary, ergo immoral opinious; and we proclaim his immerality as an unquestionable fact. In this, however, there

is a slight forgetfulness, namely, that our opponent occupies exactly susular ground, and what we think of how, he thinks of us.

The Stoics had an ineffable contempt for the weakness and effeminary of the Epicureans. The Epicureans had an ineffable contempt for the spasmedic rigidity and unmatural exaggeration of the Stoics. They libelled each other; but the libels against the Epicurrans have met with more general credit than those against the Stoics, from the more imposing character of the latter, both in their actions and doctrines.

Epicurus is said to have been the most voluminous of all Greek Philosophers, except Chrysippus; and although none of these works are extant, yet so many fragments are preserved here and there, and there is such ample testimony as to his opinions, that there are few writers of whose doctrine we can speak with greater certainty; the more so as it does not in itself present any difficulties of comprehension.

Nothing can be more unlike Pinto and Aristotle than Epicurus; and this difference may be characterized at the outset by their fundamental difference in the conception of Philosophy, which Epiruns regarded as the Art of Life, and not the Art of Truth. Philosophy, he said, was the power (érépyne) by which Reason conducted man to happiness. The investigations of Philosophy he despised they were not only operation, but contributed nothing towards Impriness; and of course Logic, the instrument of Philosophy, found no favour in his sight. His system was, therefore, only another form of Scepticists, consequent on his disastisfaction with previous systems. Soemtes had taught men to regnal their own nature as the great object of investigation; but mun does not interrogate his one nature out of simple curiosity, as for simple erudition: he studies his nature in order that he may improve it; he learns the extent of his capacities in order that he may properly direct them. The aim, therefore, of all such inquiries must be Happiness. And what constitutes Happiness? Upon this point systems differ: all profess to teach the road to Happiness, and all point out divergent reads. There can be little disunte as to what is Happiness, but infinite disputes as to the way of securing it." In the Cyrenaic and Cynic Schools we saw this question leading

At a swetting of Socialists in London, to discuss in a friendly may the press; of referring the world, M. Pierre Leronx rose and addressed his borehren than: "None confeas arriver on Parentin, wester pure! wester part Et. 660 f. Was shoot good or normal! Fulls !"

to very opposite results; and the tattle we are now to see renewed on similar ground between the Epicarvans and the Stoirs.

Epicurus, like Aristippus, declared that Picasure constituted Happiness; all animals instinctively pursue it, and as instinctively avoid Pain. Man should do deliberately that which naimals do instinctively. Every Picasure is in itself good, but, in comparison with another, it may become an evil. The Philosopher differs from the common man in this: That while they both well Picasure, the former knows how to forego certain enjoyments which will cause pain and vexation hereafter; whereas the common man seeks only the immediate enjoyment. The Philosopher's art enables him to foresee what will be the result of his ucts; and, so foresecong, he will not only avoid those enjoyments which occasion grief, but know how to embow these pains from which surpassing pleasure will result.

True happiness, then, is not the enjoyment of the moment, but the enjoyment of the whole life. We most not seek to intensify, but to equalize; not debouckery today and satisfy tomorrow, but equable enjoyment all the year round. No life can be pleasant except a rirenous life; and the pleasures of the body, although not to be despised, are insignificant when compared with those of the soul. The former are but momentary; the latter embrace both the past and future. Hence the golden rule of Temperance. Enteurus not only insisted on the necessity of moderation for continued enjoyment, he also slighted, and somewhat scorned, all exquisite indulgenera. He fed moderately and plainly. Without interdicting luxuries, he saw that Pleasure was purer and more enduring if luxurice were dispensed with. This is the ground upon which Cynics and Stoics built their own exaggerated systems. They also saw that simplicity was preferable to luxury; but they poshed their notion too far. Contentedness with a little, Epicurus regarded as a great good; and he said, wealth consisted not in having great possessions, but in having small wants. He did not limit man to the fewest possible enjoyments; on the contrary, he wished him in all ways to multiply them; but he wished him to be able to live upon little, both as a preventative against ill-forture, and as an enhancement of rare injurments. The man who lives plainly has no fear of poverty, and is better able to enjoy exquisite pleasures.

Virtue rests upon Free Will and Beason, which are inseparable; since, without Free Will our Reason would be passive, and without Beason our Free Will would be blind. Everything, therefore, in human actions which is virtuous or vicious depends on man's keeseby and willing. Philosophical education consists in necessioning the Mind to judge accurately, and the Will to choose manfully.

From this slight outline of his Ethical doctrine may be seen how readily it farmished arguments both to annulants and to defenders. We may also notice its vagueness and elasticity, which would enable usury minds to adapt it to their virtues or to their vices. The insmious would see in it only an exhortation to their own vices; the temperate would see in it a scientific exposition of temperance.

Epicureanism, in leading man to a correct appreciation of the moral end of his existence, in showing him has to be truly happy, has to combut with many obstructions which hide from him the real road of life. These obstructions are his illusions, his prejudices, his errors, his ignorance. This ignorance is of two kinds: first, ignorance of the laws of the external world, which creates absurd superstitions, and troubles the soul with false thurs and false hopes; hence the necessity of some knowledge of Physics. The second kind of ignorance is that of the nature of man; hence the necessity of the Epicurean Logic called Cassonic, which is a collection of rules respecting human system and its application.

The Enicarean psychology and physics were derived from the Democritean. The atoms of which the universe is formed are supposed to be constantly throwing off some of their parts, overficed; and these, in contact with the senses produce sensation, alorgere, But Enjourns did not maintain that these dwolling were impressed the atoms; he believed them to have a certain resemblance to their atoms, but was unable to point out where, and in how far this resemblance exists. Every sensation must be true us a sensation; and, as each, it can neither be proved nor contradicted; it is alloyed The sensations of the insure and the dreaming are also true; and, although there is a difference between their sensitious and those of saar and waking men, yet Epicurus confessed himself numble to determine in what the difference consists. Sensations however do not alone constitute knowledge; man has also the faralty of conception, rec'holese, which arises from the repeated iteration of semation : is recollection of various sensations; or, as Aristotle would say, the general idea gathered from particular sensations. It is from these conceptions that the general ideas, &i&u, are formed, and it is inthese general ideas that error resides. A sensation may be considered either in relation to its object or in relation to him who experioners it; in the latter case it is agreeable or disagreeable, and resolves the sentiments, var works, the boun of all moralice

BYRCURUS. 255

With such a train we may readily anticipate the nature of the superstructure. If agreeable and disagreeable sensations are the origin of all moral phenomena, there can be no other moral rule than to seek the agreeable and to are id the disagreeable; and whatever is pleasant becomes the great object of existence.

The Physics of Epicurus are so similar to the Physics of Demo-

critus that we need not occupy our space with them."

On reviewing the whole doctrine of Epicurus, we find in it that scepticism which the imperfect Philosophy of the day necessarily brought to many minds, in many different shapes; and the comegumes of that scepticism was the effort to find a refuge in Morals, and the attempt to construct Ethics on a philosophic basis. The altempt failed because the basis was not broad enough; but the atterrant itself is worthy of notice, as characteristic of the whole Sucrathe movement; for, although the Socratio Method was an attempt. at reconstructing Philosophy, yet that reconstruction itself was only attempted with a view to morals. Socrates was the first to bring Philosophy down from the clouds; he was the first to make it the basis of Morality, and in one shape or other all his followers and all the schools that issued from them, kept this view present to their The Epicureum are therefore to be regarded as men who rentured on a solution of the great problem, and failed because they only saw a part of the truth.

^{*} They are expenseded by Dameson, who claims a rebellious originality for Epicarus nitrals listony cannot indone. It 67, 199-

CHAPTER III.

THE STOICS.

§ I. Zeso.

THE Stoics were a large sect, and of its members so many laws been celebrated, that a separate work would be needed to conside them all. From Zeno, the founder, down to Brutus and Marcus Antoniaus, the sect embraces many Greek and Bornan worthies, and not a few sedemu mountehanks. Some of these we would willingly introduce; but we are forced to confine ourselves to one type; and the one we select is Zeno.

He was born at Citium, a small city in the island of Cyprus, of Phirmician origin, but inhabited by Greeks. The date of his birth is uncertain. His father was a merchant, in which trade he himself engaged, until his father, after a voyage to Athens, brought home some works of Socratic philosophers; these Zeno studied with cogerness and rapture, and determined his vocation.

When about thirty, he undertook a soyage both of interest and pleasure, to Athens, the great mart both for trade and philosophy. Shipurceked on the coast, he lost the whole of his valuable cargo of Phonician purple; and, thus reduced to pourty, he willingly embraced the doctrine of the Cynics, whose estentations display of poverty had captivated many minds.

There is an inreclote of his having one day read Xenophou's Messorabilia, in a bookseller's shop, with such delight that he asked where such men were to be wet with. At that moment Crates the Cymic passed by : the bookseller pointed him out to Zeno, and bade him follow Crates. He did so; and he became a disciple. But he could not long remain a disciple. The gross manners of the Cymics, so far removed from true simplicity, and their speculative inequacity, soon caused him to suck a master elsewhere. Stilpo, of Megara, became his next instructor; and from him he bound the set of disputation, which he subsequently practised with such success.

But the Megarie doctrine was too meagre for him. He was glad

XENO. 237

to hearn from Stilpo; but there were things which Stilpo could not bearh. He turned, therefore, to the expositors of Plato: Xenocrates and Polemo. In the philosophy of Plato there is, as before remarked, a germ of Stoicism; but there is also much that contradicts Stoicism, and so, we presume, Zeno grow discontented with that also.

After twenty years of laborious study in these various schools, he opened one for himself, wherein to teach the result of all these inquiries. The spot shown was the Stoo, or Perch, which had once been the resort of the Poets, and was decorated with the pictures of Polyguotus. From this Ston the school derived its name.

As a man, Zeno appears deserving of the highest respect. Although sharing the doctrines of the Cynics, he did not share their grossness, their insolence, or their affectation. In person he was tall and slender; and although of a weakly constitution, he lived to a great ago, being rigidly obstemious, feeding mainly upon figs, bread, and honey. His brow was furrowed with thought; and this gave a tinge of severity to his aspect, which accorded with the susterity of his doctrines. So honoured and respected was he by the Atlenians, that they entrusted to him the keys of the citadel; and when he died they creeted to his memory a statue of brass. His death is thus recorded:—In his nimety-eighth year, as he was stepping out of his school, he fell and broke his finger. He was so affected at the consciousness of his infirmity that, striking the earth, he exclaimed, 'Why am I thus importuned?' Earth, I obey thy summons!' He went home and strangled himself.

In the history of humanity there are periods when society scenes fast dissolving; when nacient creeds have lost their majesty, and new creeds want disciples; when the colooker sees the fabric tottering, beneath which his fellow-men are crowded either in sullen despair or in blasphereing levity, and, seeing this, he feels that there is safety still possible, if men will but he bold; he ruises a voice of warning, and a voice of exhortation; he bids them behold their peril and tremble, behold their subtation and resolve. He presches to them a doctrine they have been massed to hear, or, hearing it, unused to head; and by the mere force of his own intense consiction he gathers round him some believers who are saved. If the social anarchy he not too widely spread, he saves his country by directing its energies in a new channel; if the country's doom is scaled, he makes a gallant effort, though a vain one, and 'leaves a spotless name to after-times.'

Such a num was Zeno. Greece was fallen; but lope still remained. A wide-spread disease was fast rating out the vigour of its life: Scoticism, Indifference, Seminlity, Epicurean softpess were only counteracted by the magnificent but vague works of Plato, or the sust but abstrase system of Aristotle. Greek civilization was fast falling to decay. A little time and Rome, the she-wolf's mass. ling, would usurp the place which Greece had once so proudly beldthe place of vanguard of European rivilization. Rome, the mighty, would take from the feeble hands of Greece the trust she was no longer worther to hold. There was a presentiment of Rome in Zero's breast. In him the manly energy and stern simplicity which were to conquer the world; in him the except reverence for moral worth, which was the glory of Rome, before, insoxicated with success, slir. sought to ape the literary and philosophical glory of old Hellas. Zeno the Stoic had a Roman spirit; and this is the reason why so many noble Romans became his disciples; he had devighered the wants of their spiritual nature.

Alarmed at the sorpticism which seemed inevitably following speculations of a metaphysical kind, Zeno, like Epicurus, fited his thoughts principally upon Morals. His philosophy boasted of bring eminently practical, and connected with the daily practices of life. But, for this purpose, the philosopher must not regard pleasure so much as Virtue: nor does Virtue consist in a life of contemplation and speculation, but in a life of activity; for what is Virtue ?-Virtue is manhood. And what are the attributes of Man? Are they not obviously the attributes of an action as well as of a speculatire being? and can that be Virtue which excludes or neglects man's activity? Man, O Plato, and O Aristotle, was not made for speculation only; wisdom is not his only pursuit. Man, O Equcurus, was not made for enjoyment only; he was made also to do somewhat, and to be somewhat. Philosophy?-It is a great thing! but it is not all. Pleasure?-It is a slight thing; and, were it greater, could not embrace men's entire activity.

The aim, then, of man's existence is neither to be wise nor to enjoy, but to be virtuous—to realize his manhood. To this arm, Philosophy is a means, and Pleasure may also be one; but they are both subcedimate. Before we can be taught to lead a virtuous life, we must be taught what Virtue is. Zeno thought, with Socrates, that Virtue was the knowledge of Good; and that Vice was nothing but error. If to been the good were tautamount to the pursuit and practice of it, then was the teacher's task easily do2830 239

fined; he lad to explain the nature of human knowledge, and to explain the relations of man to the universe.

Thus, as with Socrates, sloes Mornity find itself inseparably connected with Plalosophy; and more especially with psychology. A brief outline of this psychology becomes therefore accessary as an introduction to the Stoical Morality.

Zeno utarry rejected the Platonic theory of knowledge, and accepted, though with some medifications, the Aristotelian theory. Reminiscence' and 'Ideas' were to him mere words. Ideas be regarded as the universal notions formed by the mind from a comparison of particulars. Sense furnished all the materials of knowledge; Reason was the plastic instrument whereby these materials were fashioned. But those who maintain that Sense furnishes in the materials of knowledge are hampsyed with this difficulty: By what process does Sense precise? What relation is there between Sense and the sensible Thing? What proof have we of those sensations being conformable with the Things. This difficulty is a sensor one, and early occupied speculators. Indeed, this question may be pronounced the vital question of all philosophy: upon its solution depends to a great extent the solution of all other questions. Let us state it more clearly in an illustration

At the distance of fifty yards you descry a tower; it is round. What do you mean by saying, It is round? You mean that the impression made upon your sense of sight is an impression similar in that made by some other objects, such as trees, which you, and all men, call round. Now, on the supposition that you never appreached nearer that tower, you would always believe it to be round, because it appeared so. But, as you are enabled to approach it, and as you then find that the tower is square, and not round, you begin to examine into this difference. It appeared round at that distance; and yet you say it really is square. A little knowledge of optics seems to explain the difference; but does not. At tifty yards, you say, it appears round; but it really is square. At fifty yamla, we reply, it appears round, and at our yard it appears aquare: it is neither; both round and square are conceptions of the mind, not attributes of things; they have a subjective, not an objective existence.

Thus far the ancient sceptics penetrated; but, seeing larges as utter description of all certainty in sense-knowledge, and compelled to admit that Sense was the only source of knowledge, they declared all knowledge a decrit. The perception of the real issue whence to escape this diference—the recognition of the uncertainty of sense-knowledge, and the reconciliation of that theory with the natural wants of the speculative mind—reconciling scripticism with belief, and both with reason, was the work of after-times.

Those who believed that the senses gave true reports of the Things which affected them, were driven to invent some hypothesis explanatory of the relation subsisting between the object and the Subject, the Thing and the Sense. We have seen how cidols, siry Images affinent from Things, were invented to choke up the gap, and to establish a direct connection between the Subject and the Object. Zeno, acutely enough, see that an Image deteching itself in an airy form from the Object, could only represent the superfices of that Object, even if it represented it correctly. In this way the hypothesis of eidela was shown to be no more than an hypothesis to explain Appearances; whereas the real question is not, How do we perceive Appearances? but how do we perceive Objects? If we only perceive their superficies, our knowledge is only a knowledge of phenomena, and we fall into the hands of the Scepties.

Zeno saw the extent of the difficulty, and tried to obviate it. But his hypothesis, though more compethensise, was as completely without foundation. He assumed that Sense could penetrate be-

nenth Appearance, and perceive Substance itself.

As considerable ecufusion exists on this point, we shall confine ourselves to the testimony of Sexuo Empiricus, the most entisfactory of all. In his book directed against the Logiciaus, he tells us, the Stoics held that there was one enterium of truth for man, and it was what they called the Cateleptic Phastana (rip asynthetic) destraviar, i.e. the Sensuous Apprehension). We must first understand what they meant by the Phantasm or Appearance. It was, they and, an impression on the sound [reresens er spoys]. But from this point commence their differences; for Cleanthus understood, by this impression, an impression similar to that made by the signet-ring upon wax, rail suport remoras. Chrysippus thought this abourd; for, said he, seeing that thought conceives many objects at the same time, the soul must upon that hypothesis peceine many impressions of figures. He thought that Zeno meant by impression nothing more than a modification (Propolary): likening the stell to the air, which when many voices sound simultaneously, receives simultaneously the various alterations, but without confounding them. Thus the Soul unites several perceptions which correspond with their several objects.

SENO: 241

This is extremely ingensous, and the indication of Sensation as a analysication of the Soul, opens a shaft deep down into the dark region of psychology. But, if it lets in some of the light of day, it also brings into notice a new obstacle. This soul, which is modified, does it not also in its turn exercise an influence? If wine be powed into water, it modifies the water; but the water also modifies the wine. There can be no notion without reaction. If a stone is presented to my sight, it modifies my soul; but does the stone remain anmodified?—No; it receives from me certain attributes, certain form, colour, taste, weight, etc., which my soul bestows an it, which it does not possess in itself.

Thus is doubt again spread over the whole question. The soul modifying the object is remedies, can it rely upon the truth of the sensation thus produced? Has not the wise become watery, no less than the water vinous? These consequences, however, Zono did not foreser. He was intent upon proxing that the soul really apprehended objects, not as sidols, not as the wax receives the impression of a seal, but in absolute truth. Let us continue to borrow from Sextus Empiricus.

The Phantasin, or Appearance, which causes that Modification of the Soul which we name Sensation, is also understood by the Stoces as we understand ideas; and in this general sense, they said that there were three kinds of Phantasins: those that were probable, those that were improbable, and those that were neither one nor the other. The first are those that cause a slight and equable notion in the soul; such as those which inform as that it is day. The second are those which contradict our reason: such as if one were to say during the day-time, 'Now the sun is not above the earth;' or, during the night-time, 'Now it is day.' The third are those, the truth of which it is impossible to verify: such as this, 'The number of the stars is even;' or, 'the number is odd.'

Phantasus, when probable, are true or false, or both true and false at the same time, or neither true use false. They are true when they can be truly affirmed of anything; false if they are wroughy affirmed, such as when one believes an our dipped in the water to be broken, because it appears so. When Orestes, in his madents, microok Electra for a Fury, he had a Phantasus both true and false: true, intermech as he saw something, viz. Electra; falso, intermech as Electra was not a Fury.

Of true Phantasms, some are estaloptic (apprehensive), and others non-cataloptic. The latter are such as arise from disease or

perturbation of the mind: as for instance the mouserable Phantasses produced in frency and hypochondria. The rataleptic Phantasses is that which is impressed by an object which exists, which is a copy of that object, and can be produced by no other object. Perception is closwhere said to be a sect of light, which manifests itself at the same time that it lights up the object from which it is derived.

Zeno distinctly saw the weakness of the theories proposed by others; he failed however in establishing any better theory in their place. Sextus Empiricus may well call the Stoical dectrine regue and underided. How are we to distinguish the true from the false in appearances? Above all, how are we to learn whether an impression exactly estacides with the object? This is the units problem, and Zeno pretends to solve it by a circular argument. Thus a given the publicia, how are we to distinguish the true impressions from the false impressions? The solution offered is, by ascertaining which of the impressions coincide with the real objects: in other words, by distinguishing the true impressions from the false.

Let us continue the exposition — Having a perception of an object is not knowledge: for knowledge, it is necessary that remon should assent. Perception comes from without; assent from within: it is the free exercise of man's reason. Science is composed of perceptions so solidly established that no argumentation can shake them. Perceptions not thus established only constitute Opinion.

This is making short work with difficulties, it must be confessed; but the Stoics were eager to oppose something against the Scepticies which characterized the age; and, in their engerness to haild, they did not sufficiently secure their foundations. Universal doubt they felt to be impossible. Man must occasionally assent, and that too in a constant and absolute manner. There are perceptions which carry with them irresistible conviction. There would be no possibility of action unless there were some certain truth. Where then is conviction to stop? That all our perceptions are not certeet, every one is willing to admit. But which are cause, and which are inexact? What criterious have we? The criterium we possess is Eridence. 'Nothing can be clearer than evidence,' they said; 'and, being so clear, it needs no definition.' This was precisely what it slid want; but the Stoics could not give it.

In truth, the Stoics, combating the Scepticism of their age, were reduced to the same strait as Beid, Beattie, and Hutcheson, combating the Scepticism of Humo; reduced to give up Philosophy. ZEX0. 243

and to find refuge in Commun-Sense. The battle fought by the Stoics is very analogous to the battle fought by the Scotch philosophers, in the ground occupied, in the instruments employed, in the enemy attacked, and the object to be gained. They both fought for Morahty, which they thought endangered.

We shall subsequently have to consider the Common-Sense theory: enough if we now call attention to the curious ignoratio eSearki-the curious misconception of the real force of the enemy, and the atter helplessness of their own position, which the Common-Sense philosophers displayed. The Secuties lad made an irresistable ouslaught upon the two fortroses of philosophy, Perception and Reason. They showed Perception to be based upon Appearance, and Appearance to be only Appearance, but not Certainly. They showed also that Reason was unable to distinguish between Appearance and Certainty, because, in the first place, it had nothing but Phenomena (Appearances) to build upon; and, in the second place, because there is no criterium to apply to Beason itself. Having gained this victory, they proclaimed Philosophy no longer existent. Whereupon the Stoics volorously rise, and, taking their stand upon Common-Seme, believe they rout the forces of the Scepties; believe they retake the lost fortresses by declaring that Perceptions are true as well as false, and that you may distinguish the true from the false, by-distinguishing them; and that Beason has its criterium in Evidence, which requires no criterium, it is so clear. This seems to us pretty much the same as if the French were to invade Great Britain; possess themselves of London, Edinburgh, and Dublin, declare England the subject of France, and patriots were then to declare that the French were to be driven home again by a party of volunteers taking their stand upon Hampstead Heath, displaying the banners of England, and with load alarums proclaiming the invaders defeated.

But it is time to consider the Ethical doctrines of the Stoics; and to do this effectually we must glance at their conception of the Deity. There are two elements in Nature. The first is \(\tilde{a}\)\nu \(\tilde{a}\)\nu\(\tilde{a}\)\nu\(\tilde{a}\), or primordial matter; the passive element from which things are formed. The second is the active element, which forms things out of matter: Reason, Destiny (\(\tilde{a}\)\nu\(\til

With this speculative doctrine it is easy to connect their practical

doctrine. Their Ethics are easily to be deduced from their theology. If Reason is the great creative law, to live conformably with Reason must be the practical moral law. If the universe be subject to a general law, every part of that universe must also be duly subordinate to it. The consequence is clear: there is but one formula for Morals, and that is, 'Live harmoniously with Nature,' ôxologopolius: 75 docto Die.

This is easily said. An anxious disciple might however desire greater precision, and ask, Is it universal nature, or is it the particular nature of man, that I am to live in unison with? Cleanthes taught the former; Chrysippus the latter; or, we should rather say, taught that both individual and universal nature should be understood by the formula. And this appears to have been the sense in which it was usually interpreted.

The distinctive tendency of the formula cannot be mistakene it is to reduce everything to Renson, which, as it has supremary in creation, must also have supremary in more. This is also the Pistonic conception. It makes Logic the rule of life; and assumes that there is nothing in man's mind which cannot be reduced within the limits of Logic; assumes that man is all intellect. It follows, that everything which interferes with a purely intellectual existence is to be eliminated as dangerous. The pleasures and the pains of the hody are to be despised; only the pleasures and the pains of the intellect are worthy to occupy man. By his passions be is unde a slave; by his intellect he is free. His senses are passive; his intellect is active. It is his duty therefore to surmount and despise his passions and his senses, that he may be free, active, virtuous.

We have here the doctrine of the Cynics, somewhat purified, but fundamentally the same; we have here also the anticipation of Rome; the forethought of that which was subsequently realized in act. Rome was the fit theater of Stoicism, because Rome was peopled with soldiers; these soldiers had their contempt of death formed in perpetual emignique. How little the Romans regarded the life of man their history shows. The gladiatorial combuts, brotal and relentless, must have hardened the minds of all spectators; and there were no authorising influences to counteract them. How different the Greeks! They did not pretend to despise this beautiful life; they did not affect to be above humanity. Life was previous, and they treasured it; treasured it not with petry fear, but with noble ingermousness. They loved life, and wept on quirties it; and they wept without shame. They loved life, and they said ZENO: 245

so. When the time came for them to risk it, or to give it for their country, or their honour,—when something they prized higher was to be gained by the sacrifice,—then they died undinchingly. The tears shed by Achilles and Ulysses slid not unman them; these heroes fought terribly, as they loved tenderly. Philoetetes, in agony, howls like a wild beast, because he feels pain, and feels no shame in expressing it. But these shricks have not softened him; he is still the same stern, terrible, implacable Philoetetes.

The Stoics, in their dread of becoming effeminate, became murble. They despised pain; they despised death. To be above pain was thought mandy. They did not see that, in this respect, instead of being above Humanity, they sank miserably below it. If it is a condition of our human organization to be susceptible of pain, it is only affectation to conceal the expression of that pain. Could silence stife pain, it were well; but to stiffe the cry, is not to stiffe the feeling; and to have a feeling, yet affect not to have it, is pitiful. The Savage soon learns that philosophy; but the civilized man is superior to it. You receive a blow, and you do not wince? so much of heroism is displayed by a stone. You are face to face with Death, and you have no regrets? then you are unworthy of life. Beal heroism feels the pain it conquers, and loves the life it surrenders in a noble coase.

As a reaction against efferminacy, Stoicism may be applicated; as a doctrine, it is one-sided. It ends in apathy and egoism. Apathy, nateed, was considered by the Stoics as the highest condition of Humanity; whereas, in truth, it is the lowest.

CHAPTER IV.

THE NEW ACADEMY.

§ I. ARCESTIAUS AND CARNESSES.

THE New Academy would solicit our attention, were it only for the celebrity bestowed on it by Cicero and Horace; but it has other and higher points of interest than those of literary curiosity. The combat of which it was the theatre was, and is, of singular importance. The questions connected with it are those vital questions respecting the origin and certitude of human knowledge, which so long have occupied the ingenuity of thinkers; and the consequences which flow from either solution of the problem are of the utuod importance.

The Stoics cudeavoured to establish the certified of human knowledge, in order that they might establish the truth of moral principles. They attacked the doctrines of the Sceptics, and believed they triumphed by bringing forward their own ductrine of Common-Sense. But the New Academicians had other arguments to offer. They too were Secution, although their scepticism differed from that of the Pyrrhonists. The nature of this difference Seatus Empiricus has noted. "Many persons," says he, "confound the Philosophy of the Academy with that of the Scrptics. But although the disciples of the New Academy declare that all things are incomprehensible; yet they are distinguished from the Pyrrhonists in this very dogmatism: they affend that all things are incomprehensilde-the Scepties do not affirm that. Moreover, the Scepties consider all perceptions perfectly equal as to the faithfulness of their testimony; the Academicians distinguish between probable and improbable perceptions: the first they class under various heads. There are some, they say, which are merely probable, others which are also confirmed by reflection, others which are subject to no doubt. Assent is of two kinds: simple assent which the mird yields without repugnance as without desire, such as that of a child following its master; and the assent which follows upon conviction and reflection. The Scepties admitted the former kind; the Academicians the latter."

These differences are of no great moment; but in the history of sects we find the smallest variation invested with a degree of importance; and we can understand the pertinneity with which the Academicines distinguished themselves from the Sceptics, even on such slight grounds as the above.

In treating of the Academicians we are forced to follow the plan pursued with the Sceptics, namely to consider the doctrines of the whole seet, rather than to particularize the share of each individual member. The Middle Academy and the New Academy we thus units in one; although the ancients drew a distinction between them, it is difficult for moderns to do so. Accessions and Carneades, therefore shall be our types.

Arcesilius was born at Petane in the 116th Olympial (n.c. 316). He was early tought mathematics and rhetoric, became the pupil of Theophrastne, afterwards of Arastotic, and finally of Polemo the Platonist. In this last school he was contemporary with Zeno, and probably there began that antagonism which was so remarkable in their subsequent career. On the death of Crates, Arcesilius filical the Academic chair, and filled it with great ability and success. His fascinaring manners was him general regard. He was bouned and sweet-tempered, and generous to a fault. Visiting a sick friend, who, he saw, was suffering from privation, he slipped, unobserved, a purse of gold underseath the sick man's pillow. When the attendant discovered it, the tick man und with a mulle, "This is one of Arcesilans's processes frauds." He was of a somewhat luxurious temper, but he lived till the age of seventy-five, when he killed himself by lard drinking.

Cornerales, the most illustrious of the Academicana, was been at Cyrene, in Africa, Ol. 141, 4 (n.c. 213). He was a pupil of Diogenes the Stoic, who taught him the subtleties of disputation. This made him sometimes exclaim in the course of a debate. If I have reasoned rightly, you are wrong; if not, O Diogenes, return no the minu I paid you fee my Icasons. On leaving Diogenes he became the pupil of Hegesians, who then held the Academic chair; by him he was instructed in the sceptical principles of the Academy, and on his death he succeeded to his chair. He also diligently studied the voluminous writings of Chrysippus. These were of great value to him, exercising his subtlety, and trying the temper of his own metal. He could so much to this opponent that he used to say, 'Had there not been a Chrysippus, I should not be what I am;' a tentiment very may of explanation. There are two kinds of writers:

those who directly instruct us in sound knowledge, and those who indirectly lead us to the truth by the very opposition they raise against their views. Next to exact knowledge, there is nothing so instructive as exact error: an error clearly stated, and presented in somewhat the same way as it at first presented itself to the mind which now upholds it, enables us to see not only that it is an error, but by what process it was deduced from its promises, and thus is among the most valuable modes of instruction. It is better than direct instruction; better, because the learner's mind is called into full activity, and apprehends the truth for itself, instead of passively assenting to it.

Caracades was restricted in his prinse of Chrysuppus. He felt how much he owed to his antagonist. He felt that to him he owed a clear conception of the Stoical error, and a clear conviction of the truth of the Academic dectrine; and owed also so inconsiderable portion of that readiness and subtlety which marked him out amongst his countrymen as a fitting Ambassalor to send to Rosse.

Carneades in Rome—Scapticism in the Stote city—presents an interesting picture. The Romans crowded round him, fuscinated by his subtlety and eloquence. Before Galha—before Cato the Consor—he hamagued with marrellous unition in praise of Justice; and the hard brow of the grim Stote softened; an approving smile played over those thin firm lips. But the next shy the brilliant ornion undertook to exhibit the uncertainty of all human know-ledge; and, as a proof, he refuted all the arguments with which the slay before he had supported Justice. He spoke against Justice as crossingly as he had spoken for it. The brow of Cato shekened again, and with a keen instinct of the dangers of such ingensity operating upon the Roman youth, he persuaded the Scante to send back the Philosophers to their own country.

Curacules returned to Athens, and there removed his contest with the Stoics. He tought with great appliance, and lived to the adtanced age of ninety.

That the Academicians should have embraced Scepticism is not strange: indeed, as we have said, Scepticism was the inevitable result of the tendencies of the whole epoch; and the only seet which did not accept it was forced to find a refuge in Common-Sense; that is to say, was forced to find refuge in the abdication of Philosophy, which abdication was in itself a species of Scepticism. But it may seem strange that the Academy should derive itself from Plato; it may seem strange that Arcesinus should be a continuer and a warm admirer of Plato. The succests themselves, according to Sextus Empiricus, were divided amongst each other respecting Plant's real doctrine) some considering him a sceptic, others a dogmatist. We have already explained the cause of this difference of opinion, and have shown how very little consistency and precision there is in the ideas of Plato upon all subjects except Method. Scepticism, therefore, might very easily result from a study of his writings. But this is not all. Plato's attack upon the theories of his professoors, which were grounded upon sease-knowledge, is constant, transplant. The dialogue of the Theatefus, which is devoted to the soliject of Philosophy, is an exposition of the incaparity of sense to famish materials for Philosophy. All that sense can famish the materials for is Opinios, and Opinion, as he frequently declares, even when it is Right Opinion, never can be Philosophy. Plate, in short, descroyed all the old foundations upon which theories had been constructed. He cleared the ground before commencing his own work. By this means he obviated the attacks of the Sophists, and yet refused to sustain the onus of errors which his predecessors had accumulated. The Sophists saw the weakness of the old belief, and attacked it. Having reduced it to rains, they declared themselves triumphant. Plate appeared, and admitted the fact of the old fortross being in ruins, and its deserving to be so; but he denied that the city of Troth was taken. 'Expend,' said he, 'your wrath and skill in luttering down such fortresses, I will assist you; for I too declare them useless. But the real fortress you have not yet approached; it is situate on far higher ground." Sensesknowledge and Opinion being thus set uside, the stronghold of Philosophy was the Ideal theory; in it Plato found refuge from the Sophists. Aristotle came and destroyed that theory. What then remained? Scepticism.

Arcesilaus admitted, with Plato, the uncertainty of Opinion; but he also admitted with Aristotle the incorrectness of the Ideal theory. He was thus reduced to absolute Scepticism. The arguments of Plato laid quite destroyed the certitude of Opinion; the arguments of Arastotle had quite destroyed the Ideal theory. And thus, by refusing to accept one argument of the Platonic doctrine, Arcesilaus could from Plato's works deduce his own theory of the Incomprehensibility of all things; the acceptage.

The doctrine of acatalogus recalls to us the Stoical doctrine of catalogus or Apprehension, to which it is the autithusis. The Cataloguic Phantagas was the True Perception, according to the Stoics; and, according to the Academicians, all Perceptions were acateleptic, i. r. bore no conformity to the objects perceived; or, if they did bear any conformity thereto, it could never be known.

Arcesilans saw the weak point of the Stoical argument. Zeno pretended that there was a Criterium, which decided between science and opinion, which decided between true and false perceptions, and this was the Assent which the mind gave to the truth of certain perceptions in other words, Comnous-Sense was the Criterium, 'But,' said Arcesilans, 'what is the difference between the Assent of a wise man, and the Assent of a madman?—There is no difference but in name.' He felt that the criterium of the Stoics was inself in need of a Criterium.

Chrysippus the Stoic combated Accesilans, and was in turn combated by Carneades. The great question then pending was this:— What Criterian is there of the tenth of our knowledge!

The Criterium must reside rither in Reason, in Conception, or in Sensation. It cannot reside in Reason, because Reason itself is not independent of the other two: it operates upon the materials furnished by them, and is dependent upon them. Our knowledge is derived from the senses, and every object presented to the mind must consequently have been originally presented to the scares; on their accuracy the mind must depend.

Reason commot therefore contain within itself the desired Criterium. Nor can conception; for the same arguments apply to it. Nor can the Criterium reside in Sense; because, as all admit, the senses are deceptive, and there is no perception which cannot be false? For what is Perception? Our Senses only inform us of the presence of an object in so far as they are affected by it. But what is this? Is it not see who are affected—see who are modified? You; and this modification reveals both itself and the object which causes it. Like Light, which in showing itself, shows also the objects upon which it is thrown; like light also, it shows objects in its are enforce. Perception is a peculiar modification of the sout. The whole problem now to solve is this:—

Does very undification of the soul exactly correspond with the external object which causes that modification?

This is a problem presented by the Academicians. They answered, but they did not solve it; they left to their adversaries the task of proving the correspondence between the object and subject. We may here venture to earry out their principles and endeavour to solve the problem, as it is one still agitating the minds of metaphysicians.

In nowise does the Sensation correspond with the object; in nowise sloes the modification correspond with the external cause, except in the relation of cause and effect. The early thinkers were well aware, that in order to attribute any certainty to sensious knows Inige, we must assume that the Senses transmit us Copies of things. Democritus, who was the first to see the necessity of such an bypothesis, suggested that our Ideas were Eidele, or Images of the Objects, of an extremely siry texture, which were thrown off by the objects in the shape of effluent, and entered the brain by the pores. Those who could not admit such an explanation substituted the hypothesis of Impremiens. Ask any man, not versed in such inquiries, whether he believes his perceptions to be copies of objects, -whether he believes that the flower he sees before him exists quite independently of him, and of every other human being, and exists with the same attributes of slope, fragrance, taste, etc., his answer is sure to be in the affirmative. He will regard you as a madman if you doubt it. And set so early as the epoch of which we are now aketching the history, thinking men had learned in supervise to see that our Perceptions were not copies of Objects, but were simply modifications of our minds, caused by the objects. Once admit this, and sensorus knowledge is for ever pronounced not only uncertain, but absolutely false. Can such a modification be a eyer of the cause which modifies? As well ask, Is the pain, occasioned by a burn, a copy of the fire? Is it at all like the fire? Does it at all express the essence of fire? Not in the least. It only expresses one relation in which we stand to the fire; one effect upon us which for will produce. Nevertheless fire is an Object, and a burn is a sensation. The way in which we perceive the existence of the Object (fire) is similar to that in which we perceive the existence of other objects; and that way is in the modifications they occasion; i. c. in the Scusations,

Let us take another instance. We say that we hear Thunder; in other words we have a Perception of the Object called Thunder, Our sensation really is of a sound, which the electrical phenomena we call Thunder have caused in us, by acting on the aural nerve. Is our sensation of this sound say copy of the Phenomena? Does it as any degree express the nature of the Phenomena? No; it only expresses the sensation we receive from a certain electrical state of the atmosphere.

In these cases most people will readily acquiesce; for, by a very antural confusion of ideas, whenever they speak of perceptions they

mostly mean visual perceptions; because with eight the cleanest knowledge is associated, because also the hypothesis of our pererptions being copies of Things is founded upon sight. The same persons who would willingly admit that Pain was not a copy of the Fire, nor of anything in the nature of Fire, except in its effect on our nerves, would protest that the appearance of Fire to the Eye was the real appearance of the Fire, all Eyes spart, and quite indepenilent of human vision. Yet if all sentient beings were at once swept from the face of the carth, the fire would have no attribute at all corrections Pain: because Pain is a modification, not of Fire, but of a sentient being. In like manner, if all sentient beings were at once event from the fice of the earth, the Fire would have so attributes at all reventiony light and colour; because light and colour are medifications of the sentient being, caused by something external, but no more resembling its cause than the pain inflicted by an instrument resembles that instrument

Pain and colour are modifications of the sentient being. The question at issue is, Can a modification of a sentient being be a copyof its cause? The answer is clearly a negative. We may imagine that when we see an Object our sensation is a copy of it, because we believe that the Object points itself upon the retira; and we likes perception to a mirror, in which things are reflected. It is extremely difficult to divest ourselves of this prejudice; but we may he made aware of the fallacy if we attend to those perceptions which are not visual-to the perceptions of sound, fragmuce, taste, or pain. These are clearly nothing but modifications of our sentient being cossed by external objects, but in nowise rescusting them. We are all agreed that the heat is not in the fire, but in us; that sweetness is not in the sugar, but in us; that fragrance is but the particles which, impinging on the offactory nerve, cause a sensation in us. In all beings similarly constituted these things would have similar effects, would cause pain, sweetness, and fragmore; but on all other beings the effects would be different. Fire would burn paper, but not min it; Sugar would mix with water, but not give it the sensation of sweetness.

The radical error of those who believe that we perceive things are they are, consists in mistaking a metaphor for a fact, and believing that the mind is a mirror in which external objects are reflected. But, as Baron finely says, 'The human understanding is like an averyor mirror to the rays of things, which, warney its own acture with the nature of things, distorts and percent them.' We attribute heat to the fire, and colour to the flower; heat and colour really bring atotes of our countissment, occasioned by the fire and the flower under certain conditions.

Perception is nothing more than a state of the percipient; i.e. a state of consciousness. This state may be occasioned by some external cause, and may be as complex as the cause is complex, but it is still nothing more than a state of consciousness an effect produced by an adequate cause. Of every change in our Sensation we are conscious, and in time we learn to give definite names and forms to the causes of these changes. But in the fact of Conscionsness there is nothing beyond consciousness. In our perceptions we are conscious only of the changes which have taken place within us; we can never transcend the sphere of our own consciousness; we can urver go out of ourselves, and become aware of the objects which caused those changes. All we can do is to identify certain external appearances with certain internal changes, e.g. to identify the appearance we name "fire" with certain sensations we have known to follow our being placed near it. Turn the fact of Couseconness how we will, we can see nothing in it but the change of a sentient being operated by some external cause. Consciousness is no mirror of the world; it gives no faithful reflection of things as they are per at it only gives a faithful report of its own modification as excited by external things.

The world, apart from our consciousness, i.e. the non-ego year non-ego—the world per ar—is, in all likelihood, something interly different from the world as we know it; for all we know of it is derived through our consciousness of what its effects are on ar, and our consciousness is obviously only a state of ourselver, not a copy of external things.

It may be here asked, How do you infer that the world is different from what it appears to us?

The question is pertinent, and may be answered briefly. The world per se must be different from what it appears to us through consciteness, because to us it is only known in the relation of cause and effect. World is the Cause; our Consciousness the Effect. But the same Cause operating on some other organization would produce a very different effect. If all animals were blind, there would be no such thing as light (i.e. light as we know it), because light is a pleasuremen made up out of the operation of some unknown thing on the retins. If all animals were deaf, there would be no such thing as sound, because sound is a phoseousness made up out of the operation of some unknown thing on the tympanum. If all men were without their present nervous system, there would be no such thing as poin, because pain > a physissission made up out of the operation of some external thing on the specialized nervous system.

Light, colour, sound, trate, smell, are all states of Consciousness; what they are beyond Consciousness, as existences per se, we cannot know, we cannot imagine, because we can only conceive them as we know them. Light, with its myriad forms and colours.—Sound, with its thousand-fold life—make Nature what Nature appears to us. But they do not exist as such apart from our consciousness; they are the investitures with which we elothe the world. Nature in her insentient solutule is an eternal Darkness an eternal Silence.

We conclude, therefore, that the world per as in nowise resembles the World as it appears to us. Perception is an Effect; and its truth is not the truth of resemblesce, but of relation, i.e. it is the true operation of the world on us, the true operation of Cause and Effect. But perception is not the true resemblance of the world: Consciousness is no mirror reflecting external things.

Let us substitute for the metaphor of a mirror the more abstract expression: 'Perception is the Effect of an external Object acting on a sentient being,' and much of the confusion darkening this matter will be dissipated. An Effect, we know, agrees with its Canso, but it does not necessarily countile it. An Effect is no more a Copy of the Cause than pain is a copy of the application of fire to a fager: eygo, Perception can never be an accurate report of what things are per se, but only of what they are in relation to us.

It has been said that, although no single scase does actually convey to us a correct impression of anything, nevertheless we are enabled to confirm or motify the report of one sense by the report of another sense, and that the result of the whole activity of the five senses is a true impression of the external Thing. This is a curious fallacy: it presents that a number of false impressions are sufficient to constitute a true one!

The conclusion to be drawn from the foregoing premises is this:

There is no correspondence between the object and the sensation, except that of Cause and Effect. Sensations are not Copies of Objects; do not at all resemble them. As we can only know objects through sensation—i. e. as we can only know our sensations—we can never ascertain the truth respecting objects.

This brings as back to the New Academy, the disciples of which

strenously maintained that Perception, being nothing but a modification of the Soul, could never reveal the real nature of things.

Dowe then side with the Academicians in proclaiming all human knowledge deception? No: to them, as to the Pyrchonists, we answer: You are quite right in affirming that man exaunt transcend the sphere of his own consciousness, cannot penetrate the real essences of things, cannot know causes, can only know phenomena. But this affirmation-though it crushes Metaphysics-though it interdicts the inquiry into sonsesse, into assences and causes, as frivolous because futile-does not touch Science. If all our knowledge is but a knowledge of phenomena, there can still be a Science. of Phenomena adequate to all man's true wants. If Sensation is but the effect of an External Come, we, who can never know that Cause, know it in its relation to us, i. s. in its Effect. These Effects are as constant as their Causes; and, consequently, there can be a Science of Effects. Such a Science is that named Positive Science, the aim of which is to trace the Co-existences and Successions of Phenomena, i. e. to trace the relation of Cause and Effect throughout the universe submitted to our inspection.

But unither the Pyrrhouists nor the Academicisms saw this refuge for the mind; they consequently proclaimed Scapticism as the final result of inquiry.

CHAPTER V.

SUMMARY OF THE EIGHTH EPOCH.

W E have now brought our narrative to the second crisis in the history of speculation. The Scepticism which made the Sorphists powerful, and which closed the first period of this history, we now behold once more usurping the intellects of men, and this time with far greater power. A Socrates appeared to refute the Sophista. Who is there to refute and to discredit the Sceptics?

The Scepties, and all thinkers during the epoch we have just treated were such, whether they called themselves Epicureaus, Stoics, Pyrrhonists or New Arademicians,—the Sceptics, we say, were in possessina of the most formidable arms. From Socrates, from Plato, and from Aristotle, they had borrowed their best weapons, and with these had attacked Philosophy, and attacked it with success.

All the wisdom of the antique world was powerless against the Sceptics. Speculative belief was reduced to the most uncertain *probability.* Paith in philosophic Truth was extinct. Paith in human endeavour that way was gone. Philosophy was impossible.

But there was one peculiarity of the Socratic doctrine which was preserved even in the midst of scepticism. Secrates had made Ethics the great object of his inquiries; and all subsequent thinders had given it a degree of attention which before was unknown. Philosophy contented itself with the Common-Seme doctrine of the Stoics, and the Probabilities of the Socialis, which, however fatile as philosophic principles, were efficacious enough as moral principles. Common-Sense may be a bad basis for metaphysical or scientific reasoning; but it is not so bad a basis for a system of morals.

The protest, therefore, which Scrptirism tande against all Philosophy was not so anarchical in its tendency as the protest made by the Sophists; but it was more energetic, more terrible. In the wisdom of that age there by so cure for it. The last cry of despair seemed to have been wrong from the huffled thinkers, as they declared their producessors to have been hopelessly wrong, and declared also that their error was without a remedy. It was, indeed, a saddening contemplation. The hopes and aspirations of so many incomparable minds thus irrevocably doorsed; the struggles of so many men, from Thales, who first asked houself, Whence do all things proceed? to the elaborate systematization of the forms of thought which occupied an Aristotlo—the struggles of all those men had ended in Scepticism. Little was to be gleaned from the larreest of their endeavours but arguments against the possibility of that Philosophy they were so anxious to form. Centuries of thought had not advanced the mind one step nearer to a solution of the problems with which, child-like, it began. It began with a child-like question; it ended with an aged doubt. Not only did it doubt the solutions of the great problem which others had attempted; it even doubted the possibility of any solution. It was not the doubt which begins, but the doubt which ends inquiry: it had no illusions.

This was the second crisis of Greek Philosophy. Reason thus assailed could only find a refuge in Faith; and the next period opens with the attempt to construct a Religious Philosophy.

NINTH EPOCH.

PHILOSOPHY ALIZES ITSELF WITH FAITH: THE ALEXANDRIAN SCHOOLS.

CHAPTER 1.

RISE OF NEO-PLATONISM.

§ I. ALEXANDRIA.

PHILOSOPHY no longer found a home in Greece; it lad no longer any worshipers in its native country, and was forced to seek them elsewhere. A period had arrived when all problems seemed to have been stated, and none seemed likely to be solved. Every system which human ingensity could devise had been devised by the early thinkers; and not one had been able to withstand examination. In the early annuls of speculation, a new and decisive advance is made whenever a new question is asked; to suggest a doubt, in to recevise ingensity; to ask a question, is to awaken men to a new view of the subject. But now all questions had been asked; old questions had been revived under new forms; nothing remained to stimulate inquiry, nothing to give speculators a hope of success.

Unable to ask new questions, or to offer new answers to those already asked, the Philosophers readily seized on the only means which enabled them to gain renown: they travelled. They carried their doctrines into Egypt and to Resue; and in those places they were listened to with wonder and delight. Their old doctrines were movelties to a people who had no doctrines of its own; and, from the excessive cost of looks in those days, almost all instruction being ord, the strangers were velcomed warmly, and the doctrines imported were as novel as if they had been just invented.

Philosophy, exiled from Greece, was a favoured great in Alexandria and Rome: but in both cases it was a stranger, and could not be naturalized. In Alexandria, however, it made a brilliant display; and the men it produced gave it an originality and an influence which it never possessed in Rome.

Roman Philosophy was but a weak paraphrase of the Greeian; and we, therefore, give it no place in this history. To speak Greek, to write Greek, became the feshionable ambition of Rome. The child was instructed by a Greek slave. Greek Professors taught Philosophy and Rhetoric to aspiring youths. Athens had become the necessary '1500' which was to complete a man's education. It was there that Cicero learned those ideas which he delighted in setting forth in charming dialogues. It was there Horace learned that light and careless philosophy, which shines through the sparkling crystal of his verse. Wandering from the Academy to the Porch, and from the Porch to the Garden, he became imbued with that scepticion which checks his postical cuthosiasm; he learned to make a system of that pensive epicurennism which gives so peculiar a character to his occus; a character which, with a sort of after-disner freedom and dayAssair, recommends him to men of the world.

In Rome, Philosophy might tinge the poetry, give weight to oratory, method to jurisprudence, and supply some topics of conternation; but it was no Belief filling the minds of serious men: it took no root in the national existence; it produced no great Thinkers.

In Alexandria the case was different. There several schools were formed, and some new elements introduced into the doctrines then existent. Great thinkers—Plotinus, Proclus, Porphyry—made it illustrious; and it had a rival, whose antagonism alone would confer immortal renown upon it; that rival was Christianity.

In no species of grandeur was the Alexandrian school deficient, as M. Sainert justly observes: "genius, power, and duration, have consecrated it. Be-animating, during an epoch of decline, the fermality of an aged civilization, it created a whole family of illustrious names. Plotinus, its real founder, resuscitated Plato; Proclus gave the world another Aristotle; and, in the person of Julian the Apostate, it became moster of the world. For three continues it was a formidable rival to the greatest power that ever appeared on earth—the power of Christianity; and, if it succumbed in the strongle, it only fell with the civilization of which it had been the last rampart.

Alexandria, the centre of gigantic commerce, soon became a new

Room des Benz Mondes, 1844, touse si, p. 783; an admirable article on the Alexandrian Schools.

metropolis of science, rivalling Athens. The Alexandrian Library is too celebrated to need more than a passing alluston: to it, and to the men assembled there, we owe the vast labours of erudition in philosophy and literature which were of such service to the world. We cannot here connecrate all the men of science who made it illustrious; enough if we mention Euclid, for Mathematics; Command Hipporchies, for Astronomy; Eratostheses, for Geography; and Aristarchus, for literary Criticism. Besides these, there were the Philosophers; and Lucian, the sixty Sceptic; and the Poets, Apollonius Bhodius, Callinachus, Lycophron, Tryphiodorus, and, above all, the evect idellic Theoretius.

It is a curious spectacle. Beside the Museum of Alexandria there rises into formidable importance the Diduculia of the Christians. In the same city, Philo the Jew, and Chresidennas the Pyrrhonist, founded their respective schools. Ammunius Sucras appears there. Lucian passes through at the same time that Clemens Alexandrinus is tenching. After Plotique has taught, Arius and Athanasius will also teach. Greek Scepticism, Judnism, Platonism, Christianity—all have their interpreters within so small a distance from the temple of Scrapes!

& H. Parin.

Alexandria, as we have seen, was the theatre of various struggles; of these we are to select one, and that one the struggle of the Neo-Platoniata with the Christian Fathers.

Under the name of the Alexandrian School are designated, locally enough, all those thinkers who embaroured to find a refuge from Suspticion in a new Philosophy, based on altogether new principles. Now, although these various Thinkers by no means constitute a School, they constitute a Morement, and they form an Epoch in the history of Philosophy. We may merely observe that the 'Alexandrian School' and the 'Neo-Platonists' are not convertible terms: the former designates a whole movement, the latter designates the most illustrious section of that movement.

Philo the Jew is the first of these Neo-Platonists. He was born at Alexandria, a few years before Christ. The influence of Greek ideas had long been felt in Alexandria, and Philo, commenting on the writings of the Jews, did so in the spirit of one deeply inbued with Greek thought. His genius was Oriental, his education Greek; the result was a strange mixture of mysticism and dialecPHILO. 261

ties.* To Plato he owed much: but to the New Academy, perhaps more. From Carmendes he learned to distrust the troth of all sensuous knowledge, and to deny that Beason had any criterium of truth.

Thus far he was willing to travel with the Greeks; thus far had dialectics conducted him. But there was another element in his mond beside the Greek: there was the Oriental or mystical element. If human knowledge is a delimion, we must seek for trath in some higher sphere. The Senses may descive; Remon may be power-less; but there is utill a faculty in man—there is Faith. Real Science is the gift of God: its name is Faith; its origin is the goodness of God; its cause is Piety.

This conception is not Plato's, yet is nevertheless Platonic. Plato would never have thus condemned Beason for the sake of Faith; and yet he, too, thought that the anture of God could not be known, although his existence could be proved. In this respect he would have agreed with Plabo. But, although Plato does not speak of Science as the gift of God, he does in one place so speak of Virtue; and he devotes the whole dialogue of the Meno to show that Virtue cannot be taught, because it is not a thing of the suderstanding, but a gift of God. The reasons he there employs may easily have suggested to Philo their application to Philosophy.

From this point Philo's Philosophy of course becomes a threelogy. God is ineffable, incomprehensible; his existence may be known; his insure can never be known; ô ô apa abb vậ sặt sarabprros, ôrs μὸ surá ra chus μότου. But to know that he exists is in itself the knowledge of his bring one, perfect, simple, immutable, and without ettribute. This knowledge is implied in the simple knowledge of his existence; he cannot be otherwise, if be exist at all. But to know this, is not to know in what consists his perfection. We cannot penetrate with our glauce the mystery of his essence. We can only believe.

If however we cannot know God in his essence, we can obtain some knowledge of his Divinity | we know it in The Word. This Adjug—this Word (using the expression in its Scriptural sense) fills a cursons place in all the mystical systems. God bring incomprehensible, inaccessible, an intermediate existence was necessary

^{*} St. Pint thus comprehensively expresses the national characteristic of the Jews and Greeks: 'The Jews require a sign (i.e. a transfer), and the Greeks seek after wisdom (i.e. philosophy) '—1 Chesati. 1–22

as an interpreter between God and Man, and this intermediate existence the Mystics called The Wood.

The Word, according to Philo, is Gud's Thought. This Thought is twofold: it is Noyse conscion, the Thought in embracing all Ideas (in the Platonic sense of the term Idea), i.e. Thought as Thought; and it is Noyse wandapases, the Thought realized: 'Illought become the World.

In these three Appendages of the Deity we see the Trinity of Plotinus foreshadored. There is, first, God the Father; accordly, the Son of God, f. r. the hisper; thirdly, the Son of the hisper, f. s. the World.

This brief outline of Plalo's Theology will sufficiently exemptly the two great facts which we are auxiom to have understood - lat, the union of Platenism with Oriental mysticism; 2ndly, the cutirely new direction given to Philosophy, by uniting it once more with Religion. It is this direction which characteries the Movement of the Alexandrian School. Reason had been shown to be utterly powerless to solve the great questions of Philosophy then agitated. Various Schools had pursued various Methods, but all with one result. Scouticism was the conclusion of every struggle. 'And yet,' said the Mystics, 'we have on idea of God and of his goodness; we have an ineradicable belief in his existence, and as the Perfection of his nature, consequently, in the beneficence of his sims. Yet these ideas are not innate; were they imate, they would be uniformly entertained by all men, and amongst all nations. If they are not insiste, whence are they derived? Not from Reason; not from experience; then from Faith.

New, Philosophy, conceive it how you will, is entirely the offsprong of Beason: it is the endeavour to explain by Beason the mysteries amilist which we imore, live, and liner our being." Although it is legitimate to say, 'Beason is incapable of solving the problems proposed to it,' it is not legitimate to add, 'therefore we must call in the aid of Faith.' In Philosophy, Beason must either reign alone, or abdicate. No compromise is permissible. If there are things between heaven and earth which are not dresent of in our Philosophy—which do not reme within the possible sphere of our Philosophy—we may believe in them, indeed, but we cannot christin that belief philosophical.

One of two things,—either Reason is sapable of solving the problems, or it is incapable: in the one case its attempt is philosophieal; in the second case its attempt is futile. Any attempt to mix PHILO. 263

up Faith with Benson, in a matter exclusively addressed to the Benson, must be abortise. We do not say that what Faith implicitly necepts, Benson may not explicitly justify; but we say, that to bring Faith to the aid of Benson, is altogether to destroy the phisosophical character of an inquiry. Beason may justify Faith; but Faith must not furnish conclusions for Philosophy. Directly Benson is abundaned, Philosophy ceases; and every explanation then offered is a theological explanation, and must be put to altogether different tests from what a philosophical explanation would require.

All speculation must originally have been theological; but in process of time Reason timelly sentured upon what are called 'natural explanations;' and from the moment that it felt itself strong enough to be independent, Philosophy was established. In the early speculations of the Ionians we saw the pure efforts of Reason to explain mysteries. As Philosophy advanced, it because more and more evident that the problems attacked by the early thinkers were, in truth, so far from being nearer a solution, that their extreme difficulty was only just becoming appreciated. The difficulty became more and more apparent, till at last it was pronounced incorporable: Reason was declared incompetent. Then the Faith which had so long term set uside was again called to assist the inquirer. In other words, Philosophy, discovering itself to be powerless, resigned in favour of Theology.

When therefore we say that the direction given to the human mind by the Alexandrian School, in conjunction with Christianity the only two spiritual movements which materially influenced the epoch we are speaking of—was a theological direction, the reader will at once see its immense importance, and will be prepared to follow us in our exposition of the mystical doctrines of Plotinus.

CHAPTER IL

ANTAGONISM OF CHRISTIANITY AND NEO-PLATONISM.

§ I. PROTESTS.

WHILE Christianity was making rapid and enduring progress in spite of every obstacle; while the Apostles wandwick from city to city, sometimes honoured as Evangelists, at other times insulted and stoned as enemies, the Neo-Platonists were developing the germ deposited by Philo, and not only constructing a theology, but endeavouring on that theology to found a Church. Whilst a new religion, Christianity, was duily usurping the souls of nom, these philosophers foundly imagined that an old Religion could effectually oppose it.

Christianity triumphed without much difficulty. Looking at it in a purely moral view, its immense superiority is at once apparent. The Alexandrians exaggerated the vicious tendency of which we have already seen the fruits in the Cynics and Stoics,—the tendency to despise Humanity. Plotious blushed because he had a lody: contempt of human personality could go no further. What was offered in exchange? The contain perception; the absorption of personality in that of the Deity—a Deity inaccessible to knowledge as to love—a Deity which the seal can only attain by a complete

annulilation of its personality.

The attempt of the Neo-Platonists failed, as it deserved to fail; but it had great takents in its service, and it made great unise in the world. It had, as M. Saisset remarks, three periods. The first of these, the least brilliant but the most fruitful, is that of Ammonius Saccus and Plotinus. A porter of Alexandria becomes the chief of a School, and men of genius listen to him; amongst his disciples are Plotinus, Origen, and Longinus. This School is perfected in obscurity, and receives at last a solid basis by the development of a metaphysical system. Plotinus, the author of this system, shortly after lectures at Bone with amazing success. It is then that the Alexandrian School enters upon its second period. With Porphyry and Iamblicus it becomes a sort of Church, and

disputes with Christianity the empire of the world. Christianity had seconded the throne in the person of Constantine; Neo-Platon-ism deflorence it, and usurps its place in the person of Julian the Apostate. But now mark the difference. In losing Constantine, Christianity lost nothing of its real power; for its power lay in the might of convictions, and not in the support of potentates; its power was a spiritual power, over active, ever fruitful. In losing Julian, Neo-Platonism lost its power, political and religious. The third period commences with that loss: and the genius of Proclus bestows on it one hat gleam of splendour. In usin did he strive to revise the scientific spirit of Platonism, as Plotinus had endeasoured to revise the religious spirit of Paganism: has efforts were vigorous, but sterde. Under Justinian the School of Alexandrin became extinct.

Such is the outward history of the School; let us now east a glauce at the doctrines which were there claborated. In the writings of thinkers professedly exlectic, such as were the Alexandrians, it is obvious that the greater portion will be repetitions and reproductions of former thinkers; and the historian will therefore neglect such opinions to confine himself to those which constitute the originality of the School. The originality of the Alexandrians consists in having employed the Platonic Dialecties as a guide to Mysticism and Pantheism; in having connected the doctrine of the East with the dialectics of the Greeks; in having made Benson the justification of Panth.

There are three essential points to be here examined: their Dialectics, their theory of the Trimity, and their principle of Emoustion. By their Dialectics they were Platonists; by their theory of the Trimity they were Mystics; by their principle of Emmution they were Pantheists.

§ II. THE ALEXANDRIAN DILLECTICS.

The nature of the Platonic Dialectics we hope to have already rendered intelligible; so that in saying Plotinus employed them we are saved from much accelers repetition. But although Dialectics formed the basis of Alexandrian philosophy, they did not, as with Plato, furnish the grounds of \$cbef. As far as lemma philosophy went, Dialectics were efficient; but there were problems which did not come within the sphere of human philosophy, and for these another Method was requisite. Plotious agreed with Plato that there could only be a science of Universals. Every individual thing was but a phenomenou, pusing quickly away, and having no real existence; it could not therefore be the object of philosophy. But these universals—these Ideas which are the only real existences—are they not also subordinate to some higher Existence? Phenomena were subordinate to Noumena; but Noumena themselves were subordinate to the One Noumena; In other words, the Sensible world was but the Appearance of the Ideal World, and the Ideal World in its turn was but the mode of God's existence.

The question then arises: How do we know anything of God? The sensible world we perceive through our sensor; the Ideal World we gain glimpses of through the reassuscence which the sensible world neakens in us; but how are we to take the last step—how are we to know the Desty?

I am a finite being; but how can I comprehend the Infinite? As soon as I comprehend the Infinite, I am Infinite myself; that is to say, I am no longer myself, no longer that finite being, having a consciousness of his own separate existence.* If, therefore, I attain to a knowledge of the Infinite, at is not by my Reason, which is finite and embraces only finite objects, but by some higher faculty, a faculty altogether impresonal, which identifies iteely with its object.

The identity of Subject and Object—of the thought with the thing thought of—is the only possible ground of knowledge. This position, which some of our readers will recognize as the fundamental position of modern German speculation, is so removed from all ordinary conceptions, that we must digress awhile in order to explain it. Neo-Phitonism is a blank without it.

Knowledge and Being are Identical; to know more is to be more. This is not, of course, maintaining the absent proposition that to know a borse is to be a horse: all we know of that horse is only what we know of the changes in ourselves occasioned by some external cause, and identifying our internal change with that external cause, we call it a horse. Here knowledge and being are identical. We really know nothing of the external cause (horse), we only know our own state of being; and to say, therefore, that 'in our knowledge of the horse we see the horse,' is only saying, in measual language, that our knowledge is a state of our being, and

^{*} The do rule rije filmings releas (Non-Line) misses; all pile discil misses; vi do reserve description.—Plantinus, Elea. v. lib. 5. c. 10.

nothing more. The discussion in the fourth Chapter of the foregoing Epoch respecting perception, was an attempt to prove that knowledge is only a state of our own consciousness, excited by some unknown cause. The cause send remain unknown, because knowledge is effect, not cause.

An apple is presented to you; you see it, feel it, taste it, smell it, and are said to know it. What is this knowledge! Simply a consciousness of the surious ways in which the apple affects you. You are blind and cannot see it: there is one quality less which it possesses, i.e. one mode less in which it is possible for you to be affected. You are without the senses of smell and taste: there are two-other deficiencies in your knowledge of the apple. So that, by taking away your senses, we take away from the apple each of its qualities: in other words, we take away the means of your being affected. Your knowledge of the apple is reduced to nothing. In a similar way, by endowing you with more senses we increase the qualities of the apple; we increase your knowledge by enlarging your being. Thus are Knowledge and Being identical; knowledge is a state of Bring as knowing.

"If," said Piotinus, 'knowledge is the same as the thing known, the Finite, as Finite, sever can know the Infinite, became it cannot be the Infinite. To attempt, therefore, to know the Infinite by Beason is Intile, it can only be known in immediate presence, maposonia. The faculty by which the mind divests itself of its personality is Ecstary. In this Ecstary the soul becomes lossened from its material prison, separated from individual consciousness, and becomes absorbed in the Infinite Intelligence from which it enameted. In this Ecstary it contemplates real existence; it identifies itself with that which it contemplates."

The enthusiness upon which this Eestasy is founded is not a faoulty which we constantly possess, such as Beason or Perception; it is only a transitory state, at least so long as our personal existence in this world continues. It is a flash of rapturous light, in which resolutecence is changed into infuition, became in that moment the captive used is given back to its parent, its God. The bonds which attach the soul to the body are mortal; and God, our father, pitysag us, has made those bonds, from which we suffer, fragile and delicate, and in his goodness be gives us certain intervals of respite; Zeic & marrie (Adopter recompliant, Propris of the relicate world) are well it manufacture, Recover intervals as a possess.

The Oriental and mystical character of this conception is worth

remarking ; at the same time there is a Platonic element in it, which may be noticed. Plato, in the los, speaks of a chain of inspiration, which descends from Apollo to poets, who transmit the inspiration to the rhapsedists; the last links of the claim are the souls of lowers and philosophers, who, unable to transmit the divine gift, are nevertheless agitated by it. The Alexandrians also admit the divine inspiration; not that inspiration which only warms and exalts the heart, but that inspiration revealing the Truth which Reason can neither discern nor comprehend. Whether, in ascending through the various sciences and laberiously mounting all the degrees of Dialectics, we finally arrive at the summit, and tear away the red behind which the Deity is hidden; or, instead of thus slowly mounting, we arrive at the sommit by a sudden spring, by the force of virtue or by the form of love, the origin of this revelation is the same; the Poet, the Prophet, and the Philosopher only differ in the point of departure each takes. Dialectics, therefore, though a valuable method, is not an infallible one for arriving at Entasy. Everything which purifies the soul and makes it resemble its primal simplicity, is capable of conducting it to Eestasy. Besides, there are radical differences in men's natures. Some souls are ravished with Beauty; and those belong to the Muses. Others are ravished with Unity and Proportion; and these are Philosophers. Others are more struck with Moral perfections; and these are the piace and ordent souls who live only in religiou.

Thus, then, the passage from simple Sensation, or from Bennuiscentre, to Ecstory, may be accomplished in three ways. By Music (in the ancient and comprehensive sense of the term), by Dialectin, and by Love or Prayer. The result is always the same, - the ric-

tory of the Universal over the Individual:

Such is the master given by the Alexandrians to that world-old question, How do we know God? The Reason of man is lucompetent to such knowledge, because Reason is finite, and the finite caunot embrace the infinite. But, inasmuch as Man has a knowledge of the Deity, he must have obtained it in some way : the question is, In what way ? This question, which the Christian Fathers were cuabled to answer satisfactorily by referring to Revolution, the Alexandrians could only answer most unsatisfactorily by declaring Ecstasy to be the medium of communication, because in Ecstasy the soul fost its personality and became absorbed in the infinite Intelligence.

We may read in this philosophy an instructive lesson respecting

the vicious circle in which all such reasonings are condemned to

"The one poor finite being in the abyes Of infinite being twinking restlessly."

This finite being strives to comprehend that which includes it, and in the impossible attempt exerts its confident ingenuity. Conscious that the finite or finite cannot comprehend the infinite, the Alexandrian hypothesis is at least comistent in making the finite become, for an instant, infinite. The grounds however upon which this hypothesis is framed are curious. The axiom is this:—The finite cannot comprehend the infinite. The problem is this —How can the finite comprehend the infinite? And the solution is: The finite must become the infinite.

Absurd as it is, it is the conclusion deduced by a vigorous intellect from premises which seemed indisputable. It is only one of the absurdities inexparable from the attempted solution of insoluble problems.

§ III. THE ALEXASSHIAN TRINGS.

We have said that the philosophy of the Alexandrians was a theology; their theology may be said to be concentrated in the doctrine of the Trinity. Nearly allied to the mystery of the Incurnation, which was inseparable from the mystery of Redemption, the dogma of the Holy Trinity was, as M. Saisset remarks, the basis of all the Christian metaphysics. The greater part of the important heresics, Arianism, Sabellianism, Nestorianism, etc., resulted from differences respecting some portion of this doctrine. It becomes, therefore, a matter of high historical interest to determine its parentage. Some maintain that the Trinity of the Christians was but an imitation of that of the Alexandrians; others necesse the Alexandrians of being the imitators. The dispute has been angrily conducted on both sides. It is not our purpose to medidle with it, as our history steers clear of such matters; but we think it right to indicate the quarrel.*

The Alexandrian Trinity is as follows: -God is triple, and, at the same time, one. His nature contains within it three distinct Hypo-

Such of our renders as may desire a compensions statement of the question are referred to M. Jules Sinon. Histoire de l'Ecole d'Alexandrie, vol. 1, pp. 308-331, and to the article by M. Sainet, in the Borne der Dyna Mandes, before referred to.

stores (Substances, i.e. Persons), and these three make one Being. The first is the Unity: not The One Being, not Being at all, but simple Unity. The second is the Intelligence, which is identical with Being. The third is the Universal Soul, cause of all activity and life.

Such is the formula of the doguna. Let us now see how their Dislectics conducted them to it. On looking abroad upon the world, and observing its constant transformations, what is the first thing that presents itself to our minds as the cause of all these changes? It is Life. The whole world is alive; and, not only alive, but stemjugly participating in a life similar to our own. On looking dreper, we discover that life itself is but an effect of some higher came; and this cause must be the 'Universal' which we are seeking to discover. Our logic tells us that it is Activity-Motion. But with this Motion we cannot proceed for. It soon becomes apparent to us that the myrind on-goings of nature are not merely neticities, but satelligent activities. No bazard rules this world. Tatelligence is everywhere visible. The Cause, then, we have been seeking is at last discovered; it is an Intelligent Activity. Now, what is this, but that inveterious force residing within us, directing us, impelling us? What is this Intelligent Activity but a soul? The soul which impels and directs us is an image of the Soul which impels and directs the world. God, therefore, is the eternal Soul, the duysh We have here the first Hypostasis of the Alexandrians. On a deeper inspection this notion turns out less satisfactory. The dialectician whose whole art consists in dividing and subdividing, in order to arrive at pure unity-who is always metacelling the perplexed web of speculation, to lay have at last the manited One which had become enveloped in the Many-the dialectician, beed up in the Schools of Plato and Aristotle, could not rost satisfied with so complex an cutity as an Intelligent Activity. There are at least two ideas have, and two ideas entirely distinct in nature, viz. Intelligence and Mo. tion. Now, although these might be united to some idea common to both yet superior to loth, neither of them could be considered as the last term in an analysis. The Intelligence, when analyzed, is itself the activity of some intelligent being, of Mind, Loyes.

God, therefore, is Mind, obsulate, eternal, summable. We have here the second Hypostasis. Superior to the Dirine Soul, \$\psi_{\psi_{\text{N}}}\eta_{\text{N}} \text{val}\$ warries, which is the cause of all activity, and king of the sensible world, \$\psi_{\text{N}\text{N}}\eta_{\text{N}} \text{val}\eta_{\text{N}} \text{val}\eta_{\text{Val}} \text{val crive by reflecting on the splendours of the sensible world, with the Gods, Men, Animals, and Plants, which adom it: splendours which are but imperfect images of the incomparable lastre of eternal truth. The Diviso Must embraces all the intelligible Ideas which are without imperfection, without movement. This is the Age of Gold, of which God is the Saturn. For Saturn, of whom the Poets have so grandly sung, is the Divise Intelligence; that perfect world which they have described, when

> *Vor erat internacio plantingio tepentibus surie Mulcebant Zephyvi natio sino semine flores. Mor etiam freggei tollas inamita Scobat.; Neo renormus agyr gravidis canebat arietis. Plantina jum lactis, jum flutuma nectaris ibant.; Plantique de viridi etillabant ilice mella."

That golden age is the Intelligible World, the eternal Thought of eternal Intelligence.

A word or two on this Alexandrian role. It is Thought abstracted from all thinking: it does not reason; for to reason is to acquire a knowledge of something: he who reasons, arrives at a consequence from his premisses, which he did not see in those premisses without effort. But God sees the consequence simultaneously with the premisses. His knowledge resembles our knowledge as hieroglyphic writing resembles our written language; that which we discursively develope, he embraces at once.

This rece is at the same time the energal existence, since all Ideas are united in it. It is the respectively respect of Aristotle,—or, to use the language of Plotinus, is the Sight Seeing, the identity of the act of seeing with the object seen: form valo \(\tilde{\ell}\) is increased openic opanic opanic, false to \(\tilde{\ell}\) is \(\tilde{\ell}\) in \(\tilde{\ell}\) in \(\tilde{\ell}\) in the understood by recurring to our illustration of the identity of Knowledge and Being, given above.

One would finey that this was a degree of abstraction to satisfy the most ardent dialectician; to have analyzed thus for, and to have arrived at pure Thought and pure Existence—the Thought apart from Thanking and the Existence apart from its modes—would seem

^{*} The dowers unsown in fields and mondows reigned;
And western winds innerent spring maintained.
In following years the bounded corn curred.
From earth unasked; now was that earth renewed.
From veins of valleys milk and notine broke.
And honey sweening from the porce of enk.'—Diverses's Out.t.

the very limit of human lugeauity, the last abstraction possible. But not the dislections is not yet contented; he sees another degree of abstraction still higher, still simpler; he calls it Unity. God. as Existence and Thought, is God as conceived by human intelligence: but, although human intelligence is unable to embrace any higher notion of God, yet is there in human intelligence a hint of its own weakness and an assurance of God's being something ineffable, incompethensible. God is not, on devalley avalyar, Existence and Thought. What is Thought? What is its type? The type is evidently homom reason. What does an examination of homom reason reveal? This :- To think is to be aware of some object from which the thinker distinguishes himself. To think is to later a selfrensciousness, to distinguish one's personality from that of all other objects, to determine the relation of self to not self. But nothing is external to God; in him there can be no distinction, no determination, no relation. Therefore God, in his lighest hypostasis, cannot think, cannot be thought, but must be samething superior to thought. Hence, the necessity for a third hypostasis, which third in the order of discovery is first in the order of being; it is Unity,-TO BE OFFICE.

The Unity is not Existence, neither is it Intelligence-it is superior to both : it is superior to all action, to all determination, to all knowledge; for, in the same way as the sealifule is contained in the sinuse, the many in the one, in the same way is the simple contained in the unity; and it is impossible to discover the truth of things until we have arrived at this absolute unity; for, how can we conceise nov existing thing except by unity? What is an individual, an animal, a plant, but that unity which presides over multiplicity? What even is multiplicity-an army, an assembly, a flock-when not brought under unity? Unity is consipersent; it is the bond which unites even the most complex things. The Unity which is absolute, immutable, infinite, and self-sufficing is not the numerical unit, not the indivisible point. It is the absolute universal Ose in its perfect simplicity. It is the highest degree of perfection-the ideal Beauty, the supreme Good, woulton dyaffer.

God therefore in his absolute state-in his first and highest Hypostnsis-is neither Existence nor Thought, neither moved nor mutable; he is the simple Unity, or, as Hegel would say, the Absolute Nothing the Immanent Negative. Our readers will perhaps scarcely be potient under this infliction of dialectical subtlety; but we beg them to remember that the absurdities of genius are often more instructive than the discoveries of common men, and the subtleties and extraorgances of the Alexandrians are fraught with lessons. If rigorous logic conducted eminent minds to conorations which appear extraorgant and sterile, ther may induce in us a wholesome suspicion of the officacy of that logic to solve the problems it is accupied with. Nor is the lossen mapplicable to our age. The present ruthusinsm for German Literature and German Philosophy will of course turn the attention of many young minds to the speculations in which Germany is so rife; we are consequently more interested in Plotinus, because he agitates similar questions and affords very similar massers. The German Metaphysicians resemble Plotinus more than Plato or Aristotle; nor is the reason difficult of disesvery. Piotians, coming after all the great thinkers had asked almost every metaphraical quistion and given almost every possible maswer, was condemned either to seeplicism or to accept any consequences of his dialectics, however extrong. Philosophy was in this dilemma; either to abdicate, or to he magnificently tyrminical; it chose to be the latter. Plotimus therefore shrank from no extravagances: where Reason failed, there he called upon Faith. The Germans, coming after the secure establishment of Positive Science, found Philosophy in a similar dilemma; either to declare itself inexpuble, or to proclaim its despotism and infallibility; what Logic demonstrated must be absolutely true.

This faith in logic is remarkable, and may be contrasted with the Alexandrian faith in Eestasy. Of the possibility of human togic not being the standard of truth the Germans have no suspicion; they are without the Greek scepticism as to the Criterium. They proceed with peaceable dogmatism to tell you that God is this, or that; to explain how the Nothing becomes the Existing world, to explain many other inexplicable things; and, if you stop them with the simple inquiry, flow do you know this? what is your ground of certitude? they smile, allude blandly to Fernings, and continue their exposition.

Plotinus was wiser, though less consequent. He said, that although Dialectics raise us to some conviction of the existence of God, we cannot speak of his nature otherwise than negatively: in identified wisers of real refere keropeans. We are forced to admen his existence, shough it is not correct to speak even of his existence. To say that he is superior to Existence and Thought is not to define him; it is only to distinguish him from what he is not. What he is we cannot know; it would be rificulous to endeasour to comprehend him. This difference apart, there is remarkable similarity in the speculations of the Alexandrians and the modern Germana; a similarity which all will detect who are capable of detecting identity of thought under diversity of language.

To return to the Alexandrian Trinity, we see in it the Perfect Principle, the One, το in διπλούν, which generates but is suggestrated; the Principle generated by the Perfect is of all generated things the most perfect; it is therefore Intelligence, solv. In the same way as Intelligence is the Word (λόγως) of the One and the manifestation of its power, so also the Soul is the Word and manifestation of the Intelligence, else and ή ψυχή λόγως soli. The three Hypostases of the Deity are therefore, 1st, the Perfect, the Alsolate Unity, τὸ ἐν ἀπλούν; 2nd, the First Intelligence, τὸ νούν πρώνως; 3rd, the Soul of the world.

This Trinity is very similar to the threefold nature of God in Spinoza's system. Spinoza says, that God is the infinite Existence, having two infinite Attributes: Extension and Thought. Now this Existence, which has neither Extension nor Thought, except as Attributes, although varially differing from the Absolute Unconditioned, the One, of Flotinus, is, in point of fact, the same: it is the last abstraction which human logic can make: it is that of astick nothing can be predicated, and yet which must be the final predicate of everything: division and subdivision, however prolonged, stop there, and admit as final the Unconditioned Unconditional Something; that which Proclus calls The Non-Being, µŋ ōs, although it is not correct to call it nothing, µŋōsic.

This conception, which it is impossible to state in words without stating gross contradictions, is the result of rigorous logic, reasoning from false premises. The process is this: I have to discover that which is at the bottom of the mystery of existence—the great First Cause; and, to do this I must eliminate one by one everything which does not present itself as self-existing, self-sufficing, as necessarily the first of all things, the doys.

The ancients began their speculations in the same way, but with less knowledge of the conditions of inquiry. Hence Water, Air, Soul, Number, Force, were severally accepted as Principle. In the time of the Alexandrians something more subtle was required. They asked the same question, but they asked it with a full consciousness of the failure of their predecessors. Even Thought would not satisfy them as a Principles , nor were they better satisfied with abstract Existence. They said there is something beyond Thought, something beyond Existence: there is that inhich thinks, that which exists. This 'that,' this Indeterminate Ineffable, is the Principum. It is self-aufficing, self-existent; nothing can be concained beyond it. In the old Indian hypothesis of the world being supported by an elephant, who stood on the back of a tortoise, the tortoise standing on nothing, we see a rude solution of the same problem: the mind is forced to arrest itself somewhere, and wherever it arrests itself it is forced to declars, explicitly or implicitly, that it stops at Nothing; because, as soon as it predicates anything of that at which it stops, it is forced to admit something beyond: if the tortoise stands on the back of some other animal, upon other does that other animal stand?

Human logic, when employed upon this subject, necessarily abute upon Nothing, upon absolute Negation; the terms in which this conception is elothed may differ, but the conception remains the same: Plotinus and Hegel shake hands.

In reviewing the history of Greek speculation, from the 'Water' of Thales to the 'Absolute Negation' of Plotinus, what a reflection is forced upon us of the vamity of metaphysics! So many years of laborious inquire, so many splendid minds engaged, and, after the lause of ages, the inquiry remains the same, the mover only more ingeniously abound! Was, then, all this labour vain? Were those long laborious years all wasted? Were those splendid minds all nsoless? No carmest endeavour is seldom without result. Those embaries of speculation were not useless, they were the education of the human race. They taught mankind this truth at least; the Infinite cannot be known by the finite; and man, as finite, can only know phenomena. Those labours, so fruitless in their immefinte object, have indirect lessons. The speculations of the Greeks preserve the same privilege as the glorious products of their art and literature; they are the models from which the speculations of posterity are reproductions. The history of modern metaphysical philosophy is but the narratise of the same struggles which agitated Greece. The same problems are retived, and the same answers directly.

§ IV THE DOCTRING OF EMANAGEOUS

Metaphysics propounds these questions: Has human knowledge any absolute cortainty? What is the nature of God? What is the origin of the World? Our review of the various attempts to answer these questions has ended in the Alexandrian School, which answered them as follows: but Human knowledge is necessarily uncertain; but the difficulty is get over by the hypothesis of an Eestasy, in which the soot becomes identified with the Infinite. 2nd. The Nature of God is a triple Unity—three hypostases of the One Reing. 3rd. The origin of the world is the law of Essandrian.

This third master is of coarse implied in the second. God, as Unity, is not Existence; but he becomes Existence by the Emmotion from his Unity (Intelligence), and by the second emmotion from his Intelligence (Soul), and this Soul, in its manifestations, is the World.

Historio dualism has been the universal cared of those who admitted may distinction between the world and its creator. Jupiter organizing Chaos; the Goal of Anaxagoras whose force is wasted in creation; the Engroupyic of Plato who compares and regulates Matter and Motion; the immorable Thought of Aristotle; all three ereeds were dualistic; and, indeed, to escape dualism was no may task.

If God is distinct from the World, dualism is at once assumed. If he is distinct, he must be distinct in Exerce. If distinct in essence, the question of Whence came the welld' is not answered; for the world must have existed contemporarrously with him;

Here has the difficulty: either God unde the world, or he did mot. If he made it, whence did he make it? He could not, said logic, make it out of Nothing: for Nothing can come of Nothing; he must, therefore, have made it out of his own substance. If it is made out of his own substance, then it is identical with him it must then have existed already in him, or he could not have produced it. But this identification of God with the world is Pantheism; and boys the question it should answer.

If he did not make it out of his own substance, he must have made it out of some substance already existing; and thus also the question still remains unanswered.

This problem was solved by the Christians and Alexandrians in a similar, though apparently different, reasser. The Christians said that God created the world out of Nothing by the mere exercise of his consipotent will; for to Conseptence everything is possible; one thing is an easy as another. The Alexandrians said that the world was distinct from God in net rather than in essence: it was the manifestation of his will, or of his intelligence.

Thus the world is God; but God is not the world. Without the necessity of two principles, the distinction is preserved between the Cenator and the Created. God is not confounded with Matter; and yet philosophy is no longer oppressed with the difficulty of necounting for two exernally existing and eternally distinct principles.

Pletium had by les Dialectics discovered the necessity of Unity as the basis of existence: he had also by the some means discovered that the Unity could not possibly remain alone otherwise, there would never have been the Many. If the Many implies the Ose, the Ose also implies the Many. It is the property of each principle to supender that which follows it: to supender it in virtue of an ineffable power which loses nothing of itself. This power, ineffable, inexhaustible, exceeds itself without stopping, from generation to generation, tall it attains the limits of possibility.

By this law, which governs the world, and from which God himself cannot escape, the totality of existences, which Dialectics teach as to arrange in a proper hierarchy from God to sensible Matter, appear to us thus united in one indissoluble chain, since each being is the accessary product of that which procedes it, and the necessary producer of that which succeeds it.

If asked why Unity should ever become Multiplicity—why God should ever manifest bimself in the world? the answer is ready: The One, as conceived by the Elenties, had long been found incomplete; for a God who had no intelligence could not be perfect; as Aristotle says, a God who does not think is unworthy of respect. If, therefore, God is Intelligent, he is necessarily active; a force that our enders nothing, can that be a real force? It was, therefore, in the very inture of God a necessity for him to create the world is no down in re-weeks.

God, therefore, is in his very escence a Creator, receptly. He is like a Sun pouring forth his rays, without losing my of its substance who is derive, rip it alone replaced a principle. All this flux—this constant change of things, this birth and death—is but the restless manifestation of a restless force. These manifestations have no absolute truth, no duration. The individual perishes, because individual: it is only the universal that endures. The individual is the finite, the perishable; the universal is the infinite,

immortal. God is the only existence; he is the real existence, of which we, and other things, are but the transitory phenomena. And yet timed ignorant man fears death? timed become ignorant. To die is to live the true life: it is to lose, indeed, sensation, passions, interests, to be free from the conditions of space and time,-to lose reponality; but it is also to quit this world and to be been suce in God, - to suit this fruit and pitialds individuality, to be absorbed in the being of the Infinite. To die is to live the true life. Some friest glimpses of it-some everpowering anticipations of a bliss intolerable to mortal sense, are realized as the brief moments of Ecstaty, wherein the Soul is absorbed in the Inmitte, although it cannot long remain there. Those monerats to exquisite yet so brief are sufficient to reveal to us the divinity, and to show us that deep embedded in our personality there is a my of the divine source of light, a ray which is always struggling to disengage itself, and return to its source. To die is to live the true life; and Plotinus dying, answered, in his agony, to friendly questions: " I am struggling to liberate the divinity within me."

This mysticism is worth attention, as indicative of the murch of the human mind. In many preceding thinkers we have seen a very strong tendency towards the descention of personality. From Heraclitus to Plotinus there is a gradual advance in this direction. The Cynics and the Stokes unde it a sort of philosophical levels. Plate-implicitly, and sometimes explicitly, gave it his concurrence, The conviction of man's insignificance, and of the impossibility of his ever in this world ascertaining the truth, seem to have oppressed philosphers with nell-contount. To come the bonds which bound them to ignorance, and to quit a world in which they were thus bound, were the natural consequences of their documes; but, linked mysteriously as we are to life-even to the life we came-our doctrines seldom lead to snicide. In default of snicide, nothing renained but Asceticisus-a moral suicide. As man could not summon courage to quit the world, he would at least endeavour to lead a life as far removed from worldly passion and worldly condition as was possible; and he would welcome death as the only true life.

CHAPTER III.

PROCLUS.

PLOTINUS attempted to unite Philosophy with Religion, attempted to solve by Faith the problems insoluble by Reason; and the result of such an attempt was necessarily mysticism. But, although the mystical element is an important one in his doctrine, he did not allow himself to be seduced into all the extratagances which naturally flowed from it. That was reserved for his successors, Insoldieus in particular, who performed mirroles, and constituted himself High Priest of the Universe.

With Proclus the Alexandrian School made a final effort, and with him its defeat was cutire. He was born at Constantinople, a. s. 412. He came early to Alexandria, where Olympiodorus was teaching. He proced ouwards to Athens, and from Platurch and Syrianus he learnt to comprehend the doctrines of Plato and Aristotle. Afterwards, becoming initiated into the Theoretical mysteries, he was seen made a High Priest of the Universe.

The theological tendency is still more visible in Proclim than in Plotinus. He regarded the Orphic poems and the Chaldean oracles as divine revelations, and, therefore, as the real source of philosophy, if properly interpreted; and in this allegorical interpretation cousisted his whole system.

The intelligible forms of encices posses.

The fair humanities of old pringion,

The Power, the Benniy, and the Majesty.

That had her human in this, or pay accounting,

Or found by alow stream, or pubbly spring,

Or classes and wat'ry depths; all these have canided,

They live an longer in the faith of mater.

But still the heart doth used a language, still

Doth the shif instrect being back the old maxim.

And to you sussey would they uses are guer.

Spirits or Gode that used to share this cartle

With man as with their friend.

^{*} Coloridge, in his translation of the Primbrane

280 PROCEUS.

To breathe the breath of life into the nostrils of these defined deities, to restore the beautiful Pagan erced, by interpreting its symbols in a new sense, was the non of the whole Alexandrian School.

Proclus placed Faith above Seismen. It was the only faculty by which The Good, that is to say, 'The Oue, could be appreheaded, 'The Philosopher,' said be, 'is not the Priest of one Beligion, but of all Beligious;' that is to say, he is to reconside all modes of Belief by his interpretations. Bruson is the Expositor of Faith. But Proclus made one exception: there was one Beligion which he could not tolerate, which he would not interpret,—that was the Christian.

With this conception of his mission, it is easy to see that his method must be exhertic. Accordingly, in making Philosophy the expositor of Beligion, he relied upon the doctrines of his predecesors without pretending to discover new ones for his purpose. Aristotle, whom he called 'the Philosopher of the understanding,' he regarded as the man whose unitings formed the best introduction to the study of wisdom. In him the student learnt the use of his Beason; learnt also the forms of thought. After this preparatory study came the study of Philosopher of Beason,' the sole guide to the region of Ideas, that is, of Eternal Truths. The reader will probably recognise here the distinction between Understanding and Beason, revived by Kunt, and so much insisted on by Coloridge and his followers.

Plato was the idol of Proclas; and the passionate disciple thought every word of the master as oracle; he discovered everywhere some hidden and oracular meaning, interpreting the simplest recitals into sublime allegories. Thus the effection of Socrates for Alcibiales because the dender text for a whole volume of mystical exposition.

It is curious to notice the transformations of philosophy in the various schools. Socrates interpreted the inscription on the temple at Delphi, 'Know thyself,' as an exhortation to psychological and ethical study. He looked inwards, and there discovered certain truths which scepticism could not darken; and he discoursed, says his hiegrapher, on Justice and Injustice, on things holy and things unfoly.

Plate also beded inwards, looking to find there a basis of philosophy; but his 'Know thyself' had a different signification. Man was to study bimself, because, by becoming thoroughly acquainted with his mind, he would become acquainted with the eternal Ideas of which scase awakened Reminiscence. His self-knowledge was Districted, rather than Ethical. The object of it was the contemplation of eternal Existence, not the regulation of our workly acts.

The Alexandrians also interpreted the inscription; but with these the Socratic conception was completely set uside, and the Platonic conception carried to its limits. 'Know thyself,' says Proclus, in his remnantary on Pinto's First Aleibindes, 'that you may know the essence from whose source you are derived. Know the divinity that is within you, that you may know the divine One of which your stell is but a ray. Know your own mind, and you will have the key to all knowledge.' These are not the words of Proclus, but they convey the meaning of many pages of his enthusiantic dialectics.

We are strock in Proclins with the frank and decided manner in which Metaphysics is assumed to be the only possible science; we are struck with the asies manner in which the fundamental error of metaphysical inquiry is hid open to view, and presented as an absolute truth. In no other ancient system is it stated so mixedly. If we desired an illustration of the fatility of metaphysics we could not find a better than is afforded by Proclus, who, he it observed, only pushed the premises of others to their rigorous conclusions.

He teaches that the hierarchy of ideas, in which there is a gradual generation from the most abstract to the most concrete, exactly corresponds with the hierarchy of existences, in which there is a constant generation from the most abstract (Unity) to the most concrete (phenomena); so that the relations which these ideas bear to each other, the laws which subordinate one to the other—in a word, the forms of the nomenclature of human conceptions—express the real causes, their action, their combinations; in fact, the whole system of the universe."

This is frank. The objection to the metaphysician has been that he boks invarile to discover that which lies without him, hoping, in his own conceptions of that which be is seeking to know, to find the thing be seeks. We i philosophers of the Understanding' aver that to analyze your mind is to learn the nature of your mind mothing else. Proofus bodily assumes that to know the nature of your own mind is to know the whole natverse. This is at least equsistent. But one might reasonably ask how this knowledge is to be gained? not simply by looking inwards, or else all philosophers

[&]quot; This is also the doctrine of Hend-

282 PROUTUS.

would have gained it; not even by meditation. How then?

"Merenry, the Messenger of Jose, reveals to us Jose's paternal will, and thus teaches us science; and, as the author of all investigation, transmits to us, his disciples, the genius of invention. The Science which descends into the soul from above is more perfect than any science obtained by investigation; that which is excited in us by other men is far less perfect. Invention is the energy of the soul. The Science which descends from above tills the soul with the influence of the higher Causes. The Gods annuance it to us by their presence and by illuminations, and discover to us the seder of the universe."

Of course the Mystic who had revelations from above, flispeased with the ordinary methods of investigation; and here again we see Proclus consistent, though consistent in absurdity.

CONCLUSION OF ANCIENT PHILOSOPHY.

WITH Proclus the Alexandrian School expired; with him Philosophy censed. Religion, and Religion only, seemed capable of affording satisfactory natures to the questions which perplexed the human race, and Philosophy was reduced to the subordinate office which the Alexandrians had consequed to the Aristotelana Logic. Philosophy became the servant of Religion, no longer reigning in its own right.

Thus was the circle of endearour completed. With Thales, Reason separated itself from Firth; with the Alexandrians, the two were again united. The contunes between these openis were filled with helpless struggles to overcome an insuperable difficulty.

The difference is great between the childlike question of the Ionium thinker, and the source extravagance of the Alexandrian Mystic: and yet each stands upon the source ground, and looks out upon the same troubled sea, hoping to detect a shore, ignorant that all philosophy

is an arch wherethrough Gleans that untravelled world, whose margin fales. For ever and for ever us we more.

But, to the reflection student who thus sees these men, after conturies of endeavour, fixed on the self-same spot, the Alexandrian straining his eager eyes after the same object as the Ismian, and neither within the possible range of vision, there is something which would be muniterably sad, were it not corrected by the enaviction that these men were fixed to one spot, because they had not discovered the only true pathway, a pathway which those who came after them securely true!

Still, the spectacle of human failure, especially as so gigantic a scale, cannot be without some pain. So many hopes thwarted, so many great intellects wandering in error, are not to be thought of without scalness. But it bears a lesson which we hope those who have followed us thus far will not fail to read: a lesson on the vanity of Philosophy; a lesson which almost amounts to a demonstration of the impossibility of the human mind ever composing those exalted objects which its speculative ingentity suggests as worthy of its pursuit. It points to that perfound remark of Auguste Conte, that there exists in all classes of our investigations a constant and necessary harmony between the extent of our real intellectual sents, and the efficient extent, actual or future, of our real knowledge.

But these great Thinkers, whose failures we have chronicled, did not live in voin. They left the great problems where they found them; but they did not leave Humanity as they found it. Metaphysics might be still a region of doubt; but the human mind, in its endeavours to explore that region, had learnt in some measure to ascertain its weakness and its force. Greek Phil-sophy was a failure; but Greek Inquiry had immense results. Methods had been tried and discouled; but great preparations for the real Method had been made.

Moreover Ethics had become elevated to the rank of a science. In the Pagan Religion morality consisted in eleging the particular Gods: to propitiate their favour was the only needful art. Greek Philosophy opened usen's eyes to the importance of human conduct—to the importance of moral principles, which were to stand in the place of propitiations. The great merit of this is due to Socrates. He objected to propitiation us impious: he insisted upon moral conduct as alone guiding man to happiness here and hereafter.

But the Ethics of the Greeks were at the best narrow and egoistical. Morality, however exalted or comprehensive, only seemed to embrace the individual; it was extremely incomplete as argurds the family, and had scarcely any suspicion of what we call social relations. No Greek ever attained the sublimity of such a point of view. The highest point he could attain was to conduct Acasely according to just principles; he never troubled himself with others. By the introduction of Christianity, Ethics became Social, as well as Individual.

So far advanced are we in the right direction—so corneatly are we engaged in the codesseur to perfect Social as well as Individual Ethics—that we are upt to look flown upon the progress of the Greeks as trivial; but it was increase, said in the history of Humanity must ever everpy as honourable place.

Ancient Philosophy expired with Proclus. Those who come after him, although sayling themselves philosophers, were in truth Beligious Thinkers employing philosophical formula. No one

endeavoured to give a solution of the three great problems: Whence came the world? What is the nature of God? What is the nature of human knowledge? Argue, refine, divide and sub-divide as they would, the Beligious Thinkers only used Philosophy as a subsidiary process; for all the great problems, Faith was their only instrument.

The surceoding Epochs are usually styled the Epochs of Christian Philosophy; yet Christian Philosophy is a misuomer. A Christian may be also a Philosopher; but to talk of Christian Philosophy is an abuse of language. Christian Philosophy means Christian Metaphysics; and that means the solution of metaphysical problems upon Christian principles. Non-what are Christian Principles but the Doctrines resealed through Christ; revealed became innerventide to Remon a revealed and accepted by Faith, because Remon is utterly incompetent?

So that metaphysical problems, the attempted solution of which by Benson constitutes Philosophy, are solved by Frith, and yet the name of Philosophy is retained? But the very essence of Philosophy consists in reasoning, as the manner of Religion is Faith. There cannot, consequently, be a Religious Philosophy; it is a contradiction in terms. Philosophy may be occupied about the same problems as Religion; but it coupleys altogether different Methods, and depends on altogether different principles. Religion may, and should, call in Philosophy to its sid; but in so doing it assigns to Philosophy only the unberdiente office of illustrating, occording, or applying its dogmas. This is not a Religious Philosophy; it is Religion and Philosophy, the latter stripped of its beasted previgative of dociding for itself, and allowed only to simpley itself in reconciling the decisions of Religion and of Reason.

From these remarks it is obvious that our History, being a nurrative of the progress of Philosophy only, will not include any detailed account of the so-called Christian Philosophy, because that is a subject strictly belonging to the History of Beligion.

Once more we are to witness the mighty struggle and the sad defeat; once more we are to watch the progress and development of that rast but ineffectual attempt which the sublime malarity of man has for centuries renewed. Great intellects and great hopes are once more to be reviewed; and the traces noted which they have left upon that Desert whose only semblance of trigotation is a mirage,—the Desert without first, without flower, without habitation; arid, trackless, and silent, but was, awful, and fascinating.

To trace the focusteps of the wanderers—to follow them on their gigantic journeys—to point again the moral of

*Pose Hamming's affected will Strugging in value with pathless desting,"

to bring home to the convenious of men the humble useful truth that

Wisdom is officers sensor when we stoop. Then when we wor,"

will be the object of our SECOND PARE.

PART 11. MODERN PHILOSOPHY.



TRANSPISON PERIOD.

FROM PROCLUS TO BACON.

§ I. Scholasticher.

A LTHOUGH Modern Philosophy, rigorously defined, consmences with Bacon and Descartes, from whom a distinct derelopment is traceable, such as the purpose of this History requires, we must not pass from Procles to Bacon without at least a repoll glance at the course of speculative activity during the interrening twelve centuries. Medieval Philosophy has been much decried and much exalted, but very little studied. So vast a subject demands a petience and condition few can bring to it. Fortuntely for me, whose knowledge of Scholasticism is limited to a superficial arquaintance with some of the works of Aquinas, Abelard, and Averroes, the nature of this History excludes any detailed examination of molisesal speculations. Consulting my own resources and that reader's interest, I find that the whole career of philosophic inquiry, from Proclus to Bacon, can be presented in three typical figures; namely, ARTLAND, as representing Scholasticism; Administrate, as representing Arabian philosophy; and Gronnano Barno, as reprewriting the philosophic struggle which overthrew the authority of Aristotle and the Church. These three thinkers I have studied more or less in their own writings; and the reader will understand, therefore, that the following sketch is wholly drawn from secondhand knowledge in all but these three instances.

With the Alexandrians, Philosophy, as we have seen, became absorbed in Religion. The Alexandrians were succeeded by the Christian Fathers, who of course made Philosophy the handmaid to Religion—ancillo Theologias. The whole philosophic effort was to mediate between the dogmas of faith and the demands of reason. Scholasticism derives its name from the schools opened by Charle-magne for the prosecution of speculative studies, which were only prosecuted in those days by the clergy, they alone having leisure or

inclination for such work. Thus did the Monasteries form the cradle of Modern Philosophy.*

As far as we can separate the philosophic from the theological element, it displays itself in three capital manifestations: Let, The debate on Universals; 2nd, The influence of the Arabouss, especially in their introduction of the works of Aristotle; and 3rd, The rebellion against Aristotle and all other authority, in the proclamation of the independence of Reason.

There was no separation at all until the minth century, when, in the person of Scotns Erigens, Philosophy timidly claimed its privilege. And even Scotus Engena and, 'There are not two studies, one of philosophy and one of religion; true philosophy is true religiou, and true religion is true philosophy.' In the eleventh century appeared Rescellings, who, in advocating the philosophic doctrine of Nominalism, not only separated Philosophy from Religion, but placed it in direct antagonism with the fundamental dogma of the Trinity. To understand this we must remember that in these days there was a profound and even servile submission to the clouble authority of the Church and the Greek Philosophers, - a submission necessarily resulting from the teaching of the Fathers, who always combined the two. The weeks of Greek Philosophers were, however, but scantily known through Latin translations and commonteries; but this perhaps mercused the expenses to know them; and thus all doctrine became, in fact, crudition. To interpert Aristotle was to establish philosophy. It is a common error to suppose that Aristotle at once and always reigned despotically over the philosophy of the Middle Ages. As M. Bouswaott remarks, there were two distinct characters in Aristotle then accepted; there was first the Logician, whose word was law, -assgirter divit, -whose Orgossis was the Bible of the schools,-whose authority no our thought of questioning; and there was also the Metaphysician, who, so far from receiving the worship offered to the Logician, was persecuted, excommunicated, and hursed, because his metaphysical doctrine was thought to contain the fatal heresy of the unity of

^{*} Vistor Comin, Hint. In the Phil ii Nime Leven. The various historians of Philosophy, superintly Bitter and Tenuremen, should be consulted; but the clearcest and most readable work known to me in M. Romoslot's Etuderant to Philosophic draw to Hogen Apr., 2 vols. Sec. Paris. 1820. M. Eduand's Abstract. 2 vols. Paris, 1835. by its mulying of Abeland's works, gives also a very good idea of Scholastic speculation.

[†] Etnára sur la Philip. L 173.

substance.* It was not until after Abelard, and owing to the Arahian influence, that Aristotle passed—to use M. Rémusat's happy phrase—from the consulship to the dictatorship of Philosophy.†

Plate taught Bealism. He maintained the existence of Abstract Ideas, as Objects or Substances. Aristotle, on the contrary, taught that Abstract Ideas were nothing but abstractions; general assez, not general things. Early Scholasticism adopted Bealism; and when Boscillians by subtle argumentation proved that genera and species were nothing more than logical constructions, general terms, flatss recir, without corresponding essences, it was soon evident that he was in antagonism with the dogma of the Trinity. "That Universal which year call Trinity cannot exist; and as the relations which unite these three divine persons do not exist, the Trinity cannot exist. There is either one God or three; if there is but one, he exists in a single person; if there are three, there are three beings separate, distinct."

The consequence of such heresy may be foreseen. Rescellings was summoned before the Council of Soissons, and there forced publicly to recant. He escaped to England, and perished in exile; but the seed he had nown fractified, and Nominalism afterwards because the reigning doctrine. The amount of verbal quibbing and idle distinctions employed on this famous question is only greater than that employed on other questions, because of its greater importance. No one can form an adequate idea of the frivolity and wearisons prolivity of these Schoolmen without opening one of their books; and even after laving done so, it will remain incomprehensible how suse and earnest intellects could have contented themselves with such grinding of the air in metaphysic mills, unless we understand the error which misled them. The creet was in mistaking logical constructions for truths, believing ideas to be the correlates of things, so that whatever was discernible in the mental cumbination was no covarily true of external facts. The Schoolmen analyzed the elements of speech and thought with the perts. nacious eagemess now employed by chrunsts in unalyzing the elements of bodies. This error is the fundamental error, principlus et fam, of all metaphysical speculation; and with an ill grace do metaphysicians ridicale the follies of the Schoolmen, who only

^{*} Jourdain in his armitte work, Rechardes our l'épe et l'origins des Tradactions d'Arietote, has placed this condennation of Aristotle Seyoné a deute.

⁺ Abilland, i. 318.

carried to excess the metaphysical Method of ascerified Deduction.

It may be true that Scholastic philosophy was for the most part a dispute about words, but it is not for metaphysicians to cost the represent; and the defenders of Scholasticism have an easy task when they undertake to show that beneath these verbal disputes by the despeat problems of Outology.

§ H. Lave or Adeland.

The name of Abelard has been immortalized by association with that of a soble woman. It is because Beloise loved him, that postsrity fiels interested in him: M. Michelet indeed thinks that to Abelard she owes her fame; " without his misfortnurs she would have remained observe, unboard of; and in one sense this is true; but true it also is that, without her love, Abeland would have long ago reased to inspire any interest; for his was essentially a shallow, selfish nuture. His popularity was rapid, loud, and scandalous. He was fitted for it, lived for it. But many a greater name has faded from the memories of men; many a once noise reputation fails to awaken a single echo in posterity. Apart from the conscention of passion and misfortune, there is little in his life to excite our sympathy. Viewed in connection with Heleise he must always interest us; viewed away from her, he presents the figure of a quick, viracious, unscrupalous, intensely rain Frenchman. But, in several respects, he represents the philosophic struggle of the twelfth century; and in this light we may consider hour.

He was born in Brittany in 1079, of a noble family, named Bérenger. The name of Abelard come to him later. His master langhingly noticed his superficial manner of passing over some surdies, filled as he was with others, and said, "When a dog is well filled, he can do no more than lick the bacan." The word to fick, in the corrupt Latin of that day, was before, and Bajolevsku became the cognomes of this "bacon-licking student" among his comrades, which he converted into Habelardos, "se vantant aimi de posséder ex qu'on l'accusait de ne pouvoir prendre." In the ancient writers the name is variously spelled, as Abailandos, Abaielardos, Abaielardos, Abaielardos, Abaielardos, Abaielardos, Abaielardos, Abaielardos,

^{*} Ability of, pur M. Chirles de Béneset, Puris, 1845, p. 18. This radiable to magneple contains the follost bingraphy of Abeliand and the best analysis of his works yet published. Indeed, before M. Comin. published the works of Abeliand, in 1830, every account of the philosophy of this thinker was accountily meagre and erronous.

dus, Abbajalarius, Bashmedus, Belardus, and in French as Abedhard, Abayelard, Abalard, Abailard, Abailary, Allebart, Abahad, Beillard, Baillard, Balard, and even Esbaillart; which variations seem to imply that the old French writers were as accurate in their spelling of proper names as their descendants are in their use of English and German names.

Abeland's father joined to his knightly accomplishments a taste for literature, as literature was then understood; and this taste became so dominant in the mind of the routh, that he renounced the career of arms altogether for that of learning. Dialectics was the great science of that day, almost rivalling in importance the Theology which it served and disturbed by turns. It was an exercise of intellectual ingenuity, for which this south manifested surprising aptitude. He travelled through various provinces disputing with all coners, like a knight-errant of philosophy, arged threeto by the gualing desire of notoriety. This love of notoriety was his curse through life. At the age of twenty he came to Paris, hoping thereto find a fitting opportunity of display-an areas for his powers as a disputant. He attended the Jectures of William de Champeons, the most renowned master of disputation, to whom students flocked from all the cities of Europe. The new pupil roon excited attention. The beauty of his person, the easy grace of his manner, his marvellous aptitude for learning, and still more unavellous facility of expression, soon distinguished him from the rest. The suster grew proud of his papil, loved him through this pride, and doubtless looked on him as a successor. But it soon became evident that the popul so quick at learning did not sit there merely to hearn; he was waiting for some good opportunity of display, waiting to attack his venerable master, whose secret strength and weakness he had discovered. The opportunity came; he rose up, and in the midst of all the students provoked William do Charopeaux to discussion, harassed, and finally conquished him. Rare and astonialment agitated the undents; rage and terror the master. The students were indignant because they clearly saw Abeland's incline:

Abeliard dates the origin of all his wees from this occasion, when he created camities which pursued him through life; and, with a sophistication common to such natures, be attributes the consities to cavy at his ability, instead of to the real cames, namely his inordinate ranity and artishness. For a time indeed the require with his master seemed successful. Although only two-and-twenty years of age he established a school of philosophy at Melan, which became numerously attended, and special his name far and wide. Embeddened by success, he removed his school still neuter to Paris—to Corbeil—in order, as he frankly tells us, that he might be more importunate to his old master. But his rival was still powerful, aged in science and respect. Intense application was necessary, and in the struggle Abeland's overtasked energies gave way. He was communical by the physicians to shut up his school, and retire into the country for repose and fresh air.

In two years he returned to Paris, and saw with delight that his reputation had not been weakened by absence, but that on the contrary his scholars were more eager than ever. His old antagonist, William de Champeaux, had renounced the world, and retired to a cloister, where he coened the school of Saint-Victor, afterwards so relebrated. His great reputation, although suffering from Abeland's attacks, drew crowds. One day, when the authoree was most numerous, he was startled by the appearance of Abeland among the students, come, as he said, to learn rhotoria. William was troubled, but contioned his lecture. Abeliard was wheat until the question of a Universals' was brought forward, and then enddenly changing from a disciple to an antagonist, he lamssed the old man with such rapidity and unrapectedness of assault that William confessed himself defeated, and retracted his opinion. That retractation was the death of his infurnce. His sodience ranish dwindled. No one would listen to the minor points of Dialectics from one who confosed Limself beaten on the cardinal point of all. The disciples passed over to the victor. When the combat is ficree between two heally stage, the hinds stand quietly by, watching the ismo of the contest, and if their former lord and muster, once followed and respected, is worsted, they all without hesitation pass over to the conquerce, and hence, forth follow him. Abelard's school become acknowledged as preemirent; and, as if to give his triumph greater emphasis, the professor to whom William de Champeaux had resigned his chair was either so intimidated by Abelard's amlacity, or so mbjugated by his shility, that he offered his chair to Abelard, and ranged himself moone the disciples.

Abeland was not content even with this victory. Although undisputed master in dialectics, he could not hear of any other teacher without cusy. A certain Amelia taught Theology at Laon with immense success; and this was enough to trouble Abelard's repose; accordingly to Laon he went, ridicaled Anselm's style, laughed at the puerile admiration of the scholars, and offered to surpass the master in the explanation of Scripture. The scholars fast laughed, then listened, and admired. Abelard-departed, having excited anarchy in the school, and anguish in the heart of the old man.

His cureer, at this period, was brilliant. His reputation had risen above that of every living man. His elequence and subflety charmed bundreds of serious students, who througed beneath the shadows of the Cathedral in cesseless disputation, thinking more of success in dispute than of the traths involved. M. Guirot estimates these students at not less than twe thousand—of course not all at the same time. Analet these crowds, Abeliard neight be seen moving with imposing houghtiness of carriage, not without the coreless indolence which success had given; handsome, manly, gallant-looking, the object of incessent admiration. His songs were song in the streets, his arguments were repeated in cloisters. The multi-tude rescrentially made way for him, as he passed; and from behind their window, curtains perped the rurious eyes of women. His name was carried to every city in Europe. The Pope sent heavers to him. He reigned, and he reigned alone.

It was at this period that the charms and helpless position of Heloise attracted his vanity and selfishness. He resolved to seduce ber; resolved it, as he confesses, after mature deliberation. He thought she would be an easy victim; and he who had fixed in abhorrence of Electingge-scorlarses insusatifican maper abborreless -felt that he had now attained such a position that he might induige himself with impunity. We are not here attributing hypothetic soondrelism to Abelard, we are but repeating his own statements. 'I thought, too,' he while that I should the more easily gain the girl's consent, knowing as I did to how great a degree she both possessed learning and loved it." He tells as how he 'ecoght an opportunity of bringing her into familiar and daily intercourse with me, and so drawing her the more easily to consent to my wishes. With this view I made a proposal to her mucle, through certain of his friends, that he should receive me as an inmate of his house, which was very near to my school, on whatever terms of remmeration he chose; alleging us my reason that I found the care of a household an impediment to study, and its

^{* &#}x27;Com jam me solum in mendo supernose philosophium milimarem.'— Epist. i p. 9.

expense too burdensome." The uncle, Pulbert, was prompted by anarice, and the prospect of gaining instruction for his afoce, to consent. He committed her entirely to Abelard's charge, 'in order that whenever I should be at Irisare from the school, whether by day or by night, I might take the trouble of instructing her; and should I find her negligent, use forcible compulsion. Hereupon I wondered at the man's excessive simplicity, with no less amazement than if I had beheld him entrust a lamb to the care of a famishing wolf; for in thus placing the girl in my hands for me not only to teach, but to use feerible coercion, what did he do but give full liberty to my desires, and offer the apportunity, even had it not been wought, seeing that, should entirement full, I might me threats and stripes in order to subdue her?"

The crude brutality of this confession would induce us to suppose it was a specimen of that strange illusion which often makes reflective and analytic minds believe that their enthusiasms and passions were calculations, had we not sufficient evidence, throughout Abelard's life, of his intense selfshness and soracious vanity. Whateverthe motive, the incident is curious; history has no other such example of passionate devotion filling the mind of a woman for a dialecticion. It was dialectics he taught her; since he could teach her nothing else. She was a much better scholar than he ; in many respects better read. She was perfect mistress of Latin, and knew enough Greek and Hebrew to form the basis of her future proficiency. He knew nothing of Greek or Hebrew, although all his biographers, except M. Résmont, assume that he know them boths M. Michelet even asserting that he was the only man who did then know them. t In the study of arid dialectics, then, must we imagine Abelard and Heloise thrown together; and, in the daily communion of their minds, passion ripened, steeped in that vague, dream-like, but intense delight, produced by the contact of great intelligences; and thus, as the Spanish translator of her letters sars, buscando siempre con pretexto del estudio los puriges mas

" See Epist. in

[†] He knew a few terms current in the theological literature of the day, but had he knews more, he extentations rankly would have calabited the knew-ledge on all consists. He expressly declares, moreover, that he was forced to read Grack authors in Latin revisions. See Commis edition of the Œurou Indian, p 43: also Distriction, p 200, where the non-existence of Latin various is given as the reason of his ignorance of what Aristotle says in his Physics and Metaphysics.

retirados'—they sought in the stall sir and countenance of delightful studies a solitude more expaisite than any society. "The books were open before us," says Abelard, 'but we talked more of love than philosophy, and kisses were more frequent than sentences."

In spite of the pradential necessity for keeping this intrigue secret, Abelard's truly French vanity overcame his produce. He had written love-songs to Heleise; and, with the egotism of a lad poet and indelicate lover, he was anxious for these songs to be read by other eyes besides those for whom they were composed; inxious that other men should know his conquest. His songs were soon builded about the streets. All Paris was in the secret of his integue. That which a delicate lover, out of slebency, and a seasible lover, out of produces, would have hedden from the world, this concomb suffered to be profuned by being baseled from idle and indifferent mostles.)

At length even Fulbert became aware of what was passing under his roof. A separation took place; but the lovers continued to most in secret. Heloise soon found herself pregnant, and Abehad arranged for her an escape to Brittany, where she resided with his sister, and gave birth to a son. When Fulbert heard of her flight, he was frontic with rage. Abelard came cringing to him, implering pardon, recalling to him how the greatest men had been cast down by women, needed himself of trenchery, and offered the remaration of morriage provided it were kept secret; because his marriage, if made known, would be an obstacle to his rising in the Clerch, and the mitre already glimmered before his ambitious gree. Fullers comented. But Heloise, with womanly will abusnation, would not consent. She would not rob the world of its greatest luminary. "I should hate this marriage," she exclaimed, because it would be an opprobrims and a calamity.' She recalled to Abeland various passages in Scripture and ancient writers, in which wives are occurred, pointing out to him how impossible it

* Epist, i. p. 11. He adds, with his total credity: "Et topius ad sinus quem ad Dress reducebustur resums." Medicus Guirot excellently indicates this distinction between his sensual descriptions and the cluster, though more passionate, language of Helman." will rappedly, we've so distalle point."

[†] That this many and indelicacy are eminently Perock, though unlargely not confusively French, will be admitted by all who are conversant with the life and literature of that remarkable people. It had not excuped the piceoing gaze and healthy institute of Mobire, who has an admirable passage on this antional postdarity—see Arashyke's monologue, are in seems in of L Ecolo der Frences.

would be for him to consecrate himself to philosophy unless he were free; how could be study amid the unises of children and domestic troubles of a household? how much more honourable it would be for her to sacrifice herself to him! She would be his concubine. The more she humilisted herself for him, the greater would be her claims upon his love; and thus she would be no obstacle to his advancement, no impediment to the free development of his genius.

' I call God to witness,' she wrote many years afterwards, 'that if Augustus, the superor of the world, had deemed me worthr of his hand, and would have given me the universe for a throne, the name of your concubing would have been more glorious to me than that of his empress; earins with et diquins violeretur two dies surretrix quan illius superstric.

Gladly would Abelard have profited by this sublime massion; but he was a coward, and his heart trembled before Fulbert. therefore endeavoured to survey her arguments; and she, finding that his resolution was fixed-a resolution which he were characteristically calls a bit of stapidity, some statitions-harst into tours, and constated to the marriage, which was performed with all secrecy. Fullert and his servants, however, in violation of their onth, divulged the secret. Whereupon Heloise boldly denied that she was married. The seandal became great; but she persisted in her denials, and Fulbert drove her from the house with reproaches. Abeland removed her to the mannery of Argenteral, where she assumed the mountain dress, though without taking the veil-Abelard furnishly visited Isr.* Meanwhile Fullert's empirious were roused, lest this seclusion in the numbery should be but the first step to her taking the veil, and so ridding Abelard of all impediment. Those were violent and brutal times, but the rengennes of Fulbert startled even the Paris of those days with horror. With his friends and accomplines, he surprised Abelard eleging, and there inflicted that atrocious mutilation, which Origen is a moment of religious frency inflicted on himself.

In shame and arguesh Abeland sought the referge of a cloister. He became a monk. But the intense selfishness of the sam would not permit him to renounce the world without also forcing Helaise to recounce it. Obelieut to his commands, she took the will

By adds * Nosti . . . quid ibi tivera men libidizis egent intemperantia in quadem center parts (pens refertoris. Norti id impadentimento tracc serum ente in tum revenendo loco et summa Virgini consecrato."- Ente, v. p. 10

thus once again sacrificing herself to him whom she had accepted as a husband with muchish regret, and whom she abandoned in trembling, to devote herself henceforth without hope, without faith, without love, to her divine husband.

The pates of the convent closed for ever on that noble woman whose story continues one of pure herosom to the last; but we cannot purse to narrate it here. With her disappearance, the great interest in Abeland disappears; we shall not therefore detail the various episodes of his subsequent coreer, taken up for the most part with quarrels—lest with the monds, whose dissoluteness he reproved, next with theologisms, whose hatrod he roused by the 'heresy' of reasoning. He was condemned publicly to retract; he was persecuted as a heretic; he had ventured to introduce Rationalism,—or the explanation of the degrans of Faith by Beason,—and he softered, as men always suffer for novelties of dectrine. He founded the convent of Paraelete, of which Heleise was the first abless, and on the 21st of April, 1142, he expired, aged sixty-three. 'Il yecut dans l'angoisse et mourut dans l'humiliation,' says M. de Rémusat, 'nais il eat de la gloire et il fin simé.'

§ III. PRILINGERY OF ARRESTS.

It would not be difficult to fill a volume with the exposition of Abelard's philosophy; indeed, in M. de Rémusat's work a solume and a quarter are devoted to the subject without exhausting it. But the asture of this History, and the necessities of space, equally force us to be very brief. Abelard's contributions to the development of speculation may all be reduced to two points: the question of Universals, and the systematic introduction of Reason as an independent element in theology, capable not only of explaining degraes, but of giving degimes of its own.

'The nature of genera and species has formed perhaps the longest and most enimated, and certainly the most abstract controversy which has ever agitated the human mind,' says M, de Brimsant, who adds, 'that it is also one which now seems the least likely to have introvisted men so deeply.' The same will, probably, one day be mid of the question of Immaterialism and Materialism, a logomachy as great, as animated, and as remote from all practical results, as that of Universals, but which, from its supposed relation to religious truths, has been made the great controversy of the schools. In our day there are few speculators who do not believe

that important religious principles are indissolubly connected with the doctrine of an immaterial principle superaided to, and in nowise identical with, the brain; and this in spite of the indisputable fact that the early Christian Fathers maintained the materiality not only of the soul, but of God kimself;" in spite also of the many pious moderns of mainpeachable orthodoxy who held, and beld, the doctrines stigmatized as Materialism, and who think with Ocean; "Experiment enim quod intelligimus et volumus et nolumus, et similes actus in nobis habeture; sed quod ille sint e forus issue, teriali et incorreptibili assi experimen, et omnis ratio ad hujus prohationem assumpta assumit sliquod dahium."

Although, therefore, the intense feeling stirred by the dispute respecting Universals appears incomprehensible to us, who consider the dispute to have been a logomachy, for the most part; we may render intelligible to curselves how such a dispute came to be so important, by ecosidering the importance now attached to the dispute respecting an 'immuterial principle.' Life or important, it was the dispute of the Middle Ages; and M. Consin is guiltr of no exaggeration in saying 'the whole Scholastic philosophy issued out of a phrase in Porphyry as interpreted by Boetlans.' Here is the passage: 'Intentio Porphyrii est in hos source facilous intelbetum of predicumenta pregurare, tractando de quinque relus val vocibus, genere scilicet, specie, differentia, progres et accidenti; quorum cognitio valet ad presileamentorum cognitionem." In the planse relace nel reciber he was understood to signify that things and words were mutually convertible; to discourse of one or of the other was indifferent; and the question turned upon this point; Does the word Genus, or the word Species, represent an actual assiething, existing externally,-or is it a mere noise which design nates a certain collection of individuals? The former opinion was held until Roscellinus attacked it, and brought forward the burest

^{*} Tertalian wrote a work expressly to combut the immuterialism of Plate and Aristotle. One sentence will suffer to hear out what is said above respecting God: 'Quis sufers acquisit Dean one corpus, etc. Deep spiritus!' M. Guzzet, in his Lopeur out ! Blat, do In Civilization on Proper, and M. Bousselet's Evolve out is Philos, dans in Moyon Aye, will furnish the maker with other examples.

^{*} We been withe passage from Remodel's Electer, iti. 256.

^{† &#}x27;The object of Poplayry in this work is to prepare the mind for the any independing of the Poplayments, by treating of the fire things or words, namely, greats, species, difference, property, and sevident; the knowledge of which leads to the knowledge of the Predigments.

of Nominalism with such force of argument that, although the heresy was condemned, the logic forced its way; and Abeland, when he attacked the doctrine of Besliom, taught by William de Champeaux, borrowed so much of the Nominalist argument that matil quite recently he has been called a Nominalist himself. That he was not a pure Nominalist is now clear; and M. Rousselot has even made out an ingenious case for him as a Realist. But, in troth, he was cutively neither; he was something of both; he was a Conceptualist. The poculiarity of his doctrine consists in the distinction of Matter and Form applied to genus and species. 'Every individual,' he says in a very explicit passage of the treatise De Generabus of Speciobas, printed by M. Consin, is composed of matter and form, i.e. Soemirs from the matter of Man, and the form of Socratity; so Plate is of the same matter, namely that of man, but of different form, namely that of Platonity; and so of all other individual men. And just as the Scenatity which formally constitutes Socrates is nowhere but in Socrates, so the essence of man which sustains Socratity in Socratos, is nowhere but in Socrates. The same of all other individuals. By species therefore I mean, not that ecorner of man which alone is in Secretes, or in any other individual, but, the whole collection which is formed of all the individuals of the same nature. This whole collection, although essentially multiple, by the Authorities is named one Species, non-Universal, one Nature; just as a nation, although composed of many persons, is called one. Thus each particular essence of the collection called Humanity is composed of matter and form, namely the animal a matter, the form is bowever not one, but many, i.e. rationality, morality, bipedulity, and all the other substantial attributes. And that which is said of man, namely that the part of man which statums Sociatity is not essentially the part which sustains Platonity, is true also of the Animal.* For the Animal which in me is the form of Humanity, cannot essentially be elsewhere; but there is in it something not different from the separate elements of individual animals. Hence, I call Genus the multimate of animal cosmes which sustain the individual species of Animal; the multitude diversified by that which forms Species. For this

^{*} We must subjoin the original: 'Et sieut de houine dictum est, sellicet qued that housest qued sustant Scenatistem, illud countiditer non sustant Patentistem, its de asimuli. Nam illud suireal qued formus humanitatis que le sus est, sestant, illud escentialites albé non est, sed ille non different est et sugalis materia singulorum sulimborum accurats.'

latter is only composed by a collection of essences which sustain individual forms: Genus, on the contrary, is composed by a collection of the substantial differences of different Species... The particular essence which forms the Genus Animal, results from a certain matter, essence of body, and substantial forms, animation and sensibility, which can only exist essentially there, although they take indifferently the forms of all species of body. This union of essences produces the universal named Animal Nature.¹⁹

This provings will give the reader a taste of Abeliant's quality when he is least tirescency from it we see clearly enough the kind of reality which he attributed to grantal terms, in equosition to the Nominalists, who trought that terms were only terms; he said they were terms Which expressed esperations, and these conceptions were based on realities; as when a multitude is conscived under the form of unity, linking together all the actual resemblances existing between the infividuals. This looks so very like Realism, that M. Rouselot may be puriourd for having argued at great length the paradoxical throis of Abstard's being a Realist; but a closer examination of the treatise from which we have just cited a long passage, proves that Abelard slid not dervive himself in maintaining the Realist doctrine to be erroneous from his point of view. He maintained that grans and species now not general essences existing essentially and integrally in the individuals, whose identity admitted of no other diversity than that of individual mostes, or accidents; which was the doctrine of Realism; for, if this doctrine were true, the subject of these accidents, the substance of these modes being identical, every individual would possess the same substance, and humanity would only be one man; thus Socrates being at Athens, humanity would be at Athens; but Plato being at Thebes, hamandy must then either not be at Athens, or Plate must not be homomity.

Let us quit here the question of Universals, to consider the second characteristic of Abelard's philosophy. It was he who gave the form if not the subject-matter of Scholasticism. It was he who brought Logic as an independent power into the areas of thrologisal debate; a heresy which drew the terrors of the Church upon him: Paoit is colors or some et scrutoter alta Dei, said St. Bernard, writing to the Pope; and the same St. Bernard let fall the terrible accusation; 'Ironogreditar fines quas powerous polices nor-

^{*} Dr Generious et Spreicher, p. 524.

fri-be has gone beyond the limits set by one Smefathers!"-in all ages, in all nations, a much of reprobation.

Supported, as he thought, by thousands of partisans, Abelied assmed an attitude of offiner, almost of disclain. Unconscious of his real danger, he published the substance of his Lectures in a work called Introduction and Theologians, in which he undertook to demonstrate by Beason the dogmas of Faith, and promulgated the then analysisms opinion, that all dogmas should be presented under a rational form. That this was very far from being acceptable, may be read not only in his conformation, but also in the passage of his Distinctive, where he says that his rivals declared it not permissible in a Christian to treat even of Dialectics, because Dialectics was not only incapable of instructing any one in the faith, but disturbed and destroyed faith by the complication of its arguments."

This commencement, feeble though it may have been, marks a new epoch in the development of speculation. The struggle of Reason rgainst Authority, which began with Abelard, has not yet terminated. "My disciples," he says in his Introduction, "asked me for arguments drawn from philosophy such as reason demanded, begging me to instruct them that they might understand and not merely repeat what was taught them; since no one can believe anything until he has first understood it; and it is ridiculous to preach to others what neither teacher nor pupil understand."

Not content with this resolutionary principle, Abeliand further 'transgressed the limits of his forefathers' by the composition of the treatise Sie et Nou,* she object of which was to eate the passages of Scripture and the Fathers are and con upon every important topic: this collocation of contradictory statements given by the highest possible authorities was meant, as Abeliand distinctly informs us, to train the mind to rigorous and boothy doubt, in fulfilment of the injunction 'Seek, and ye shall find; knock, and it shall be opened unto you.' Dubitando coins ad inquisitionem vanimus; inquirendo veritatem perciptum; juxta quod et Veritas ipos Quevits, inquit, invesiclis; pañate, et operiotor robis.'! Whatever his intention may have been, the result of such a work was

^{*} Weleting p. 414.

^{*} It is printed in Countr's edition, but with contained. The entire work was published in Germany, 1841, under this title: Petri Maclevili Sic et Non; primess integroom editional E. L. Heads et G. S. Lindoukolf.

² Page 17 of the edition just named.

elearly forescen by theological teachers, who regarded doubt as damnable, and would not tolerate it under the plansible espects of intellectual gymnastics, or the love of seeking for truth. But theologians were mable to arrest the development of speculation. Doubt began; disputation waxed stronger; logic played like lambent flame around the most sacred subjects; Scholasticism entered every exp in Europe, and filled it with subtle disputants.

During the centuries which succeeded, the question of Nominalism was constantly in debate; and beside it many others so remete, and, to modern apprehensions, so frivolous, that few historians boust of more than superficial acquesistance with mediavial philosophy, and few mention it without scorn. To name but one topic, what does the reader think of a debate istrate Dean intelligat assess elle a ze per ideas careas, as afilter? What does be think of men westing their energies in trying to concince each other of the true process by which God conseived ideas—discussing, with ardour and unmisgiving ingenisty, topics which are necessarily beyond all possible demonstration? Nevertheless, absurd as such discussions were, they have found, even in modern times, legitimate successors; and the laborious fatility of the Schoolmen has been rivalled by the laborious fatility of the German metaphysicians.

We are not here to follow step by step the long course of mediaval speculation, but may pass at once to the Arabian Philosophy as illustrated in Alguentii.

§ III. ARBARRELL

In our ignorance of Arabian history, it would be presumptuous to assert that, and the Greeks became known to them, the Arabs had no philosophy at all of their own, but whotever they may have had, we are only repeating their own woosal in asserting, that after their acquaintance with the Greekan systems, all philosophical energy was devoted to the mastery and development of those systems. The history of their philosophy is divided into two parts; the first comprising the period of ancient thinkers, the Greeks; the second comprising the afforts of the Museulman schools. The Greek schools were divided into two series, those which preceded and those which succeeded Aristotle. In the first series there is scarcely a name familiar to our curs which was not familiar to

^{*} Schneidlere, Essei vor les Louis Philosophiques chez les Arabes, p. 96.

the Arabian philosophers, Orphens and Honor included. The Seven Sages are constantly alluded to. Thales, Anaximenes, Heraclitus, in short all the great thinkers, are expounded and communited on, not, according to M. Schmidders, with any historical or critical accuracy, but at any rate sufficiently to show their acquiminance with Greek books. In the series succeeding Aristotle they are more at home. They translated every work they could procure, and studied with service agreemity to appropriate all the doctrines of the Stagirite. Thus it is that Arabian Philosophy has beaute the sphere of European development; although the Arabians played an important part in the development of European enture during the Middle Ages, and Averroes and Avicenus were long regarded as augistri, no sconer did Europe possess the originals from which the Arabia learned, than they neglected these interpreters, and interpreted for themselves.

The work which will form the basis of the present Section is one which has the attraction of being entirely original,—the history of a mind developing and Arabian influences, and not the mere reflex of Greeinn thought. It is probably owing to the originality of this treatise that it was never translated during the Middle Ages, the translators of those days earing only for Greek. Philosophy; and thus, in spite of the high reputation of Algantals, the work was a closed book in all but Arabian scholars until 1842, when a learned German reprinted it with a translation into French.⁸⁸

Algazzăli, the Light of Islam and Pillar of the Mosque, who under the names of Gazzali, Ghazzil, and Algazel is frequently mentioned by writers on Arabian Philosophy, and was at one time-made familiar to Europe by the attacks of his adversary Avereous, was been in the city of Tons, a. o. 1508. He was mined Alson Hazzili, from whence he drew his name. Losing his latter in early life, he was confided to the care of a South. The acarest approach to what is meant by a South is what we mean by Mystic. The influence of this South was great. No somer had the posth finished his studies, than he was appointed professor of thrology at Baghad, where his cloquence achieved such splendid success that all the Immes became his eager partisons. So great was the admi-

^{*} Emerican by Keeles Philosophiques also he Arabes. Par M. Schneichers, Paris, 1842. From my notice of this work in the Edinburgh Review, April 1847, I have incorporated many passages in the present Section.

ration be inspired, that the Musealmen sometimes said. If all Ishan more destroyed, it would be but a slight loss, provided Algazzili's work on the "Revisification of the Sciences of Religion" were preserved.' It is this work which M. Schmidters has translated. It bears so remarkable a resemblance to the Discours say is Mittade of Descartes, that had any translation of it existed in the days of Descartes, every one would have exied out against the plagingism.

Like Descuries, he begins with describing how he had to vain interrogated every sect for an answer to the mysterious problems which disturbed him with a sense of things unknown; and how he finally resolved to discard all authority, and detach himself from the opinions which had been instilled into him during the ensureding years of childhood. 'I said to myself,' he proceeds, 'My aim is simply to know the truth of things; consequently it is indispersable for me to ascertain what is hearledge. Now, it was ordert to me that certain knowledge must be that which explains the object to be known in such a miniour that no doubt can remain, so that in future all error and conjecture respecting it must be impossible. Not only would the understanding then need no efforts to be corvinced of certitude, but security against error is in such close connection with knowledge, that even were an apparent proof of its falsehood to be brought forward it would cause no doubt, because no enspicion of error would be possible. Thus, when I have acknowledged ten to be more than three, if any one were to say, "On the contrary, three is more than ten; and to prove the truth of my assertion, I will change this rod into a surpent," and if he more to change it, my consiction of his error would remain unshaken. His manoravre would only produce in me admiration for his ability. 1 should not doubt my own knowledge.

"Then was I convinced that knowledge which I and not possess in this manner, and respecting which I had not this retrainty, could impire me with neither confidence nor manuance; and no knowledge without assurance deserves the name of knowledge.

'Having examined the state of my own knowledge, I found it directed of all that could be said to have those qualities, onless perecptions of the senses and irrefragable principles were to be considered such. I then said to myself, Now having fallen into this despair, the only hope remaining of sequency incontestable consistions is by the perception of the senses and by accessary truths, Their evidence seemed to me indulatable. I began however to examine the objects of sensation and speculation, to see if they could possibly admit of doubt. Then doubts crowded upon me in such numbers that my incertitude became complete. Whence results the confidence I have in sensible things? The strongest of all our senses is sight; and yet, looking at a shadow and perceiving it to be fixed and immorable, we judge it to be deprived of movement; nevertheless experience teaches as that, when we return to the same place as hour after, the shadow is displaced; for it does not ranish suddenly, but gradually, little by little, so as never to be at rest. If we look at the stars, they seem as small as money pieces; but mathematical proofs convence us they are larger than the earth. These and other things are judged by the senses, but rejected by reason as false. I abundoued the senses, therefore, baring seen all my confidence in their truth shaken.

'Perhaps, said I, there is no assurance but in the notions of Beassu: that is to say, first principles, e.g. ten is more than three; the same thing cannot have been recated and yet have existed from all eternity; to exist and not to exist at the same time is impossible.

"Upon this the senses replied: What assurance have you that your confidence in Reason is not of the same nature as your confidence in us? When you rehed on us, Reason stepped in and gave us the kie; had not Reason been there, you would have continued to sely on us. Well, may there not exist some other judge superior to Reason, who, if he appeared, would refute the judgments of Reason in the same way that Reason refuted us? The non-appearance of such a judge is no proof of his non-existence."

These sceptical arguments Algorabli bereved from the Grecian sceptics, and having borrowed them, he likewise horrowed from Grecian mystics, of the Alexandrian school, the means of escape from scepticism. He looked upon life as a dream.

'I strave in vain to mover the objections. And my difficulties increased when I came to reflect upon sleep. I said to myself, During sleep you give to visions a reality and consistence, and you have no suspicion of their untruth. On authoring you are underware that they were nothing but visions. What assurance have you that all you feel and know when awake does actually exist? It is all true us respects your condition at that moment; but it is nevertheless possible that another condition should present itself which should be to your awakened state that which your awakened state now is to your sleep; so that in respect to this higher condition your waking is but sleep.'

If such a superior condition be granted, Algarrali asks whether we can over attain to participation in it. He suspects that the flestesy described by the Soufa must be the very condition. But he finds himself philosophically madde to escape the consequences of scepticism: the seepairal arguments could only be refuted by demonstrations; but demonstrations themselves must be founded on first principles, if they are uncertain no demonstration can be certain.

"I was thus forced to return to the admission of intellectual notions as the basis of all certitude. This however was not by systematic reasoning and accountation of proofs, but by a flash of light which God sent into my soul. For winever imagines that truth can only be reastered evident by proofs, places narrow limits to the wide companion of the Creator."

Thus we see Algorabli elisting acquirism just as the Alexandrons eluded it, taking refuge in faith. He then end his eyes on the surious seets of the faithful, whom he ranged under four classes

 The Degenatists: those who ground their doctrine wholly upon reason.

II. The Bustinia, or Allegorists: those who receive their doctrine from an Imam, and believe throughout sole possessors of truth-

III. The Philosophers: those who call themselves masters of Logic and Demonstration.

IV. The Supir: those who claim in issuediste intuition, by which they perceive the real manifestations of truth as ordinary men perceive material phenomens.

These schools he resolved that outputstion. In the writings of the Degmatists be acknowledged that their aim was realized but their aim was not his aim: 'Their aim,' he says, 'is the preservation of the Patth from the alterations introduced by heretics.' But his object was philosophical, not theological; so he turned from the Dogmatists to the Philosophers, studying their works with antenne arthur, continued that he could not refute them until he had thoroughly understood them. He did refute them, entirely to his satisfaction; " and having some so, turned to the Souts, in whose writings be found a doctrine which required the union of action with speculation, in which circue was a guide to knowledge. The nion of the Soutis was to free the mind from earthly considera-

^{*} In the most relains of the works of Avergous there is a treatise by Algumili. Destructio Philosophorus, which common his refutation of the philosophical schools.

tions, to purify it from all passions, to leave it only God as an object of meditation. The highest truths were not to be reached by shedy, but by fromport-by a transformation of the soul during ecstors. There is the some difference between this higher order of truth and collerary science, as between being healthy and knowing the defaifrom of Isralib. To reach this state it was necessary first to purify the sual from all earthly desires, to extirpate from it all attachment to the world, and humbly direct the thoughts to our eternal home.

Reflecting on my situation, I found myself bound to this world by a thousand ties, temptations assailing me on all sides. I then examined my actions. The best were these relating to instruction and situation; and even there I saw myself given up to unimportant sciences, all nocleos in another world. Reflecting on the aim of my tracking, I found it was not pure in the sight of the Lord. I saw that all my efforts were directed towards the acquisition of glory to myself?

Thus did Philosophy lead him to a sporalative Ascrticism, which columity was shortly afterwards to transform into practical Ascelleism. One day, as he was about to betwee to a throng of admiring auditors, his tongue refused atterance; he was domb. This seemed to him a visitation of God, a rebuke to his vanity, which deeply affected hou. He lost his appetite, he was fost sink. ing; physicians declared his memory hopeless, unless he could shake off the sadness which depressed him. He sought refuge in contruplation of the Deity.

Having distributed my wealth, I hat Bagdad and retired into Seria, where I remained two years in softery struggle with my oul, combating my passions and exercising myself in the purifica-

tion of my heart, and in preparation for the other world."

He visited Jerusalem, and made a pilgrimage to Mecca, but at length returned to Bugilad, arged thereto by 'private affairs' and the requests of his children, as he says, but more probably meed throats for his sense of failure, for he confesses not to have reached the certaffe stage. Occasional glimpses near all he could attain, inland moments of exaltation passing quickly away.

Nevertheless I did not despair of finally attaining this state; Every time that any artifest turned me from it, I endeavoured quickly to re-enter it. In this condition I consided ten years. In my solitade there were revelations made to me which it is impossilds for me to describe, or even indicate. Enough if, for the reader's profit, I declare that the consistion was forced upon me that the Soufis indubitably walked in the true paths of salvation. Their way of life is the most beautiful, and their morals the purest that can be conceived."

The first condition of South purification is, that the novice purge his heart of all that is not God. Prayers are the means. The object is absorption in the Deity.

'From the very first, Soufis have such astonishing revelations that they are embled, while waking, to see visions of angels and the souls of the prophets; they have their voices, and receive their favours. Afterwards a transport exalts them beyond the more perception of forms, to a degree which exceeds all expression, and concerning which we cannot speak without employing language that would sound blaspheraous. In fact, some have gone so far as to imagine themselves to be associated with God, others identified with Aiw, and others to be associated with him." All these are sinful.'

Algamili refuses to enter more minutely into this subject; he contents himself with the assertion that whose knows not Eestasy knows prophetism only by name. And what is Prophetism? The fourth stage in intellectual development. The first, or infuntile stage, is that of pure Sessation; the second, which begins at the age of seven, is that of Understanding; the third is Beason, by means of which the intellect perceives the necessary, the possible, the absolute, and all those higher objects which transcend the Understanding.? After this comes the fourth stage, when another eye is opened by which man perceives things hidden from others—perceives all that will be—perceives things that everye the perceptions of Reason, as the objects of Reason escape the Understanding, and as the objects of Understanding escape the sensitive faculty. This is Prophetism. Algorith undertakes to prove the existence of this faculty:—

*Doubts respecting Prophetism must refer either to its possibility or its reality. To prove its possibility it is only necessary to prove that it belongs to the entegury of objects which cannot be regarded as the products of intelligence: such, for example, as Astronomy or Medicine. For whose studies these sciences is aware that they cannot be comprehended except by Divine inspiration, with the

^{*} How characteristic this is of negativino in all upon may be seen in the delightful Henry with the Mystim, by Mr. R. A. Venghan.

[†] Kent's three psychological elements, Socilebbert, Foreignt, Foreignt, no here articipated.

assistance of God, and not by experience. Since there are astronomical inflications which only appear once in a thousand grars, how could they be known by experience? From this argument it is retident that it is very possible to perceive things which the intriligence cannot conceive. And this is precisely one of the properties of Prophetism, which has a myrind other properties; but these others are redy perceptible during cestasy by those who lead the life of the Soufis."

We are now in a position to judge of Soufism, which was not, strictly spenking, a Philosophy, nor was it a Religion. No Musunimum, according to M. Schmölders, ever regarded it as eather. It was simply a role of life, carried into practice by a body of men, similar to what in Europe would have been a mounstic order. The aim of Algazzili's trentise was something more than the more inextention of Soutism, it was the endeasour to supply a philosophical Assis for the rule of life; in other words, in attempt to reconcide Religion with Philosophy, or Philosophy with Religion; procisely, amilogous to that attempt which constitutes the whole philosophic activity of Scholasticism. There were two great speels in the intellectual development of the Arabinus: the peraching of Mahomet, and the conquest of Alexandria; the one gave them a Beligion, the other gave them a Philosophy. The doctrines of the Korm were bleaded with those of the Neo-Platonists, and the result was that system of speculation known as Ambian Philosophy; a system-different in its details, but similar in spirit and purpose to that known as Scholasticism, which blended the doctriors of Christianity with those of Greeian speculators.

§ IV. REVIVAL OF LEARNISH.

However similar in spirit, Scholasticism could of crurse only accept, from the Arabian Philosophy, that portion which was desired from Greece, since Christianity necessarily replaced the Mahometan element. Europe was subshied to the Arabia for most of the principal works of Aristotle; and although it has long been the cut of historium and critics to speak contemptuously of the Arabian translations—a contempt perfectly importial, soring that the critics creld read no Arabic—we are assured by M. Selmidders that these translations were very careful, and critical. Through the schools of Cordoba, Seville, Tolodo, Valencia, Murcia, and Almeria, the Greek writers penetrated everywhere.

With the revival of learning, after the fall of Constantinople, came fresh streams of Greeign influence. The works of Plato became generally known; under Marsilio Firins-to whom we cow the Latin translation of Plato"-a school of Platonists was formed, which esuringed to divide, with the whool of Aristotle, the supremor of Europe, under new forms, as before it had divided at under the from of Realism. The effect of this influx of Greeisn influence, at a period when Philosophy was just councipating itself from the absolute authority of the Church, and preclaiming the divine right of Remon to be heard on all rational topics, was to transfer the allegiance from the Church to Antiquity. To have sublenly cast off all authority would have been too violent a change; and it may on the whole be regarded as fortunate for human development that Philosophy dol so blindly accept the new authority-one altogether Arreste, jet without deep roots in the life of the nation, without my external constituted power, oursequently very liable to disention and disruption, and certain to give way before the necessary invergence of Reason insisting on freedom.

There is something profoundly significant in the principle of Autherity, when not exercised despotically, and something essentially amendical in the principle of Liberty of Thought, when not restrained within due limits. Both Authority and Liberty are necessary principles, which only in misme become purplying or destructive. It may be made perfectly clear to the rational mind that there can he no such thing as 'liberty of private judgment' in Mathematics, Astronomy, Physics, Chemistry, or any other science the truths of which have been established; the person ignorant at those someet does, and must, take upon trust the statements made by those who are authorities; he counct indulge his 'private judgment' on the mitter, without forfeiting the respect of those who hear him. Does this mean that all men are bound blindly to accept what astronomers and chamiels ascert? No; to require such submission of the judgment, it to pass beyond the principle of Authority, and assume that of Despotism. The principle of Liberty assures entire freedom to intellectual activity, warrants the control of Authority, incites men to control it by submitting its positions to those elementary uses by which it was itself originally constituted. If I have made a series of experiments which have led to the disclosure of an

In many respects our best guide in Plate's minning where he is ment, it man, It is prouted in Bekker's edition,

important truth, year liberty of private judgment is more anarchy if it assert itself in deaying the truth simply out of you own pre-conceptions; but it is healthy freedom if it resert itself in deaying the truth after having submitted my authority to its original tests (those experiments, namely, which gave it authority), and after dotreting some error in my experimentation, or some inaccuracy in my industrion. The authoritative statement of Sir Charles Bell, repeated by every other anatomist, respecting the separate functions of the auterior and proterior columns of the splinal chord, was one which permitted to liberty of private judgment, but flid permit liberty of private scriftmain; and when M. Brown-Séquard respected the original experiments and proved the former conclusions to be errorsons," his authoritative statement replaced that of presions matemiats, and will continue to replace it, until it has undergone a similar defeat through the process of verification.

If this is a correct view, it will enable us to understand the long continuance of Aristotle's numberity, which correct the minds of men as the numberity of one confessedly a master in his art, and one whose positions would not easily be brought to the test of verification. Hence, as Bayle says, the method employed was first to prove every thesis by authority, and sext by arguments; the proofs by authority were passages of Aristotle; the arguments went to show that these passages, rightly interpreted, meant what the thesis meant.

Other cames contributed to foster this reverence for Authority; only one came could effectually destroy it, and that was the rise of positive Science, which by forcing men to verify every step they took, led them into direct antagonism with the ancients, and made them choose between the new tenth and the old dogma. As Campanella—one of the reforming thankers—acutely saw, "the reforms already made in philosophy must make us expert its ecophete change; and whomer denies that the Christian mind will surpass the Pagas mind, must also drug the mistence of the New World, the planets and the stars, the seas, the animals, the rolanies, and the modern seets of the new cosmography." It does not come within our purpose here to trace the rise and development of Science; we must therefore pass at once to Giordano Bruno, whom we have selected as the type of the philosophical insurgency against the multi-city of Aristotle and the Church.

[.] See Minutes de la Swille de Birlogni. 1808.

t Quebel by M. Bourneier, Manual & Philip. Madern. y. 7.

§ V. GRORDANO BEING.

On the 17th of February, 1600, a vast concourse of people was assembled in the largest open space to flowe, gathered together by the irresistible sympathy which men always feel with whatever is terrible and tragic in human existence. In the centre stood a harpe tille of fuggots; from out its lags and branches rose a stake; Crowding round the pile were ruger and expectant faces, men of various ages and of various characters, but all for one moment united in a common feeling of malignant triumph. Beligion was about to be avenged; a heretic was coming to expire on that spot the crime of open defiance to the dogmas proclaimed by the Church -the crime of teaching that the earth moved, and that there was an infinity of worlds : the soundfol! the villain! the blasphener! Among the cross a night be seen monks of every description, especially Dominicans, who were auxious to vitness the punishment of an apostate from their peder; soulthy citizens were justling ragged beggars,-young and heatitrous women, some of them with infants at their breasts, were talking with their husbands and fathers,-- and playing about analyt the crossl, in all the heedlessness of childhood, were a number of boys, squeezing their way, and running up against scholars pale with study, and bearded soldiers glittering with steel.

Whom does the crowd await? Giordano Bruno—the port, philosopher, and havetie—the teacher of Galileo's heresy—the friend of Sir Philip Sidney, and open antagonist of Aristotle. Guestions pass emptly to and fro among the crowd; exultation is on every face, mingled with intruse cursosity. Grave men moralize on the power of Satan to percent learning and talent to cril; Oh, my friends, let us beware!—let us beware of learning! let us beware of everything! By standers shake significant heads. A land comes over the crowd. The procession internally advances, the toldiers peremptorally clearing the way for it. Look, there he is—there, in the centre! How calm—how haughry and stubborn! (women whisper, 'How handsome!') His large eyes are turned towards us, sevens, untroubled. His face is placed though so pale. They offer him the crucitis; he turns uside his bend—he refuses to kins it? 'The baretic!' They show him the image of Him who died upon

^{*} In this Section I have altered and abridged an entry of my own in the British Quarterly Berries.

the error for the sake of the living truth—he refuses the symbol!

A yell bursts from the multitude.

They chain him to the stake. He remains silent. Will be not pray for mercy? Will be not recent? Now the last hour is arrived—will be die in his obstinacy, when a little hypocrisy would save him from so much agony? It is even so: he is stabborn, malterable. They light the faggests: the branches crackle; the fame ascends; the victim writhes—and now we see no more. The smoke envelopes him; but not a prayer, not a plaint, not a single ery escapes him.—In a little while the wind has scattered the askes of Giordano Bruno.

The nurryrdom of Brano has preserved his name from falling into the same neglect as his writings. Most well read men remember his name as that of our who, whatever his errors might have been, perished a victim of intolerance. But the extreme rarity of his works, sided by some other causes into which it is uccelless here to enter, has, until lately, kept even the most curious from forming may arquaintance with them. The rarity of the writings made them objects of hibitopolic laxway: they were the black sums of literature. Three limited florins were paid for the Speccio, in Holland, and thirty pounds in England. Jacobi's mystical friend, Hamann, swatched Italy and Germany in vain for the dialogues De to Course and De P Japaits. But in 1830, Herr Wagner, after immense teil, brought out his valuable edition of the Italian works, and since then students have been able to form some idea of the Neapolitan thinker.*

Goordane Brime was been at Nois, in La Term di Lavoro, a few miles from Naples, and unidous between Vesovius and the Mediterranean ? The date of his birth is fixed as 1500—that is to say, tru years after the death of Copernicus,—whose system he was to esponse with such undour,—and ten years before the birth of our own illustrious Bason. Taxos well says:

> "La terra Simili a sè gli abitator" produce :"

and Brano was a true Neapolitan shild—as ardent as its volcanic soil, barning atmosphere, and dark thick nine (songen garres)—as capricious as its varied climate. There was a restless energy which

Opere di Giordani Bruco, Nelano, cea per la prima velta receste e jubblicate da Adolfo Wagner. 2 vola, Letyng, 1800.

^{*} For the hogosphic details I am money indebted to the valuable work of M. Christian Barthelmon, entitled Jordano Brown, Syola, Paris, 1848.

fated him to become the prescher of a new crosside—urging him to there a longisty defiance in the face of every authority is every country,—an energy which closed his wild adventurous carrier at the stake lighted by the Imposition. The was also distinguished by a rich fancy, a varied humour, and a chicalcons gallinstry, which constantly remind as that the athlete is an Italian, and an Italian of the sixteenth contary. Stern as was the struggle, he arser allowed the grace of his nature to be campided by its voluntonee. He wast forth as a preacher; but it was as a peractor young, handsome, gay, and worldly—as a port, not as a functio.

The first thing we lear of him is the adoption of the Dominiem's frack. In spite of his ardent temperament, so fall of vigorous life, he shots himself up in a cloister, affered, probably, by the very contract which such a life offered to his own energetic character. Braso in a claister has but two courses open to him; either all that afflunt energy will ruch into some stern fourtiesen, and, as in Loyola, find aliment in perpetual self-resultat, and in bending the wills of others to his purposes; or else his restless spirit of inquiry, stimulated by avidity for glary, will startle and irritate his superiors. It was not long ere the course was decided. He began to doubt the paystery of transulstantiation. Nay more ; he not only three doubt iron the dogmas of the Church, he had also the archesty to attack the pillar of all faith, the great authority of the age-Aristotle limself. The natural consequences ensued by was feared and proyecuted. Unable to withstand his appounts, he find. Crating mide the monkish role, which elathed him in what he thought a fide-bood, he fied from link at the very moment when Mounique, having finished the first part of his insmorted Essays, entered it, to yay a visit to the unleaspy Taoo, then raving in an hoopstal.

Bruno was now an exile, but he was free; and the delight be felt at his release may be read in several passages of his writings, espevially in the securit preferri to \$Classics;

> Usedo di priginar angusta e area, One tanti atmi error atretto ni errima: Qui lascio la catena, else sui ciase, La man di tala nettora investa e ferni etc.

He was thirty years of age when he began his adventurous course through Europe—to wage single handed our against much of the falsehood, folly, and corruption of his epoch. Like his great prototype, Neurophanes, who wandered over Greece, a rhaposlist of

philosophy, striving to awaken mankind to a recognition of the Desty whom they degended by their dogmas, and like his own unlarge rivals, Companella and Vanini, Brano became the knighterrant of truth, ready to combat all comers in its cause. His life was a battle without a victory. Persecuted in our country, he fled to mother-everywhere suring the seeds of resolt, everywhere shaking the dynasty of received opinion. It was a strange time,to overe consest man, a sad and almost hopeless time. The Church was in a pitiable condition-decaying from within, and attacked from unbout. The lower clergs were degraded by ignorance, indoknor, and sensuality; the prelates, if more calightened, were enlightened only as epicures and pedants, swearing by the Gods of Greece and Roner, and Inforiously imitating the soucceas roll of Caxeronian periods. The Referention and startled the world, especially the evolusinatical world. The Impuisition was vigilant and erusi; but among its very members were sception. Scoptioners, with a polish of houserise, was the general disease. It penetrated almost everywhere-from the closter to the cardinal's pulses, Scopticism, however, is only a transitory disease. Men awar laws convictious. Accordingly, in all ages, we see scepticism stimulating new reforms; and reformers were not wanting in the sixteenth century. Of the Lutheran movement it is needless here to speak. The sixtrenth century marks its place in history as the century of resolutions; it not only broke the chain which bound Europe to Rome, it also broke the chain which bound philosophy to Sobolesticium and Aristotle. It set human reason free; it proclaimed the blight of thought and action. In the tanguard of its army, we see Telesio, Camponella, and Bruno, men who must always excite our admiration and our gratitude for their cause and for their courage, They fell lighting for firedom of thought and uttermee-the victime of a faunticien the more offices because it was not the riguer of belief, but of pretended belief. They fought in those early does of the great struggle between science and prejulies, when Galilon was a heretic, and when the implicable severity of dogmatism buytized in blood every new thought form into the world.

One sport is common to all these reformers, however various their doctrines: that spirit is one of unbesitating opposition to the dominant authority. It is the crisis of the Middle Ages—the modern era dawns there. In the fifteenth century men were occupied with the newly-awakened transures of ancient learning: it was a century of eradicion; the past was worshiped at the expense of the present. In set, in philosophy, and in religion, men sought to restore the splendours of an earlier time. Bennelleschi, Michael Angelo, Raphael, dischining the types of Gothic set, strose to recall tone more the classic type. Marsilio Ficino, Mirandela, Teleso, and Brano, discarding the subtleties and disputes of Schulasticism, undercoursed to reproduce Pythagoras, Plato, and Plotinos. In religion, Luther and Culvin, accordily rising against Papal corruptions, laboured to restore the Church to its primitive simplicity. Thus the new era secured retrogrado. It is often so. The recurrence to so carrier time is the preparation for a future. We cannot leapfur, leaping from the spot where we stand; we must step backwards a few paces to acquire momentum.

Giordano Bruno censelessly attacked Ariotetle. In so doing he knew that he grappled with the Goliah of the Church. Aristotle, was a synonym for reason. An anagram was made of his name, "Aristoteles: inte zol even," His logic and physics, together with the Ptolemnic system of astronomy, were then considered as inseparable portions of the Christian cored. In 1624-a quarter of a century after Bruno's marryrilota-the Parliament of Paris issued a derner banishing all who publicly maintained theses against Aristotle; and in 1629, at the argent renoustrance of the Sorbonne, decreed that to contradict the principles of Aristotle was to contradict the Church! There is an anupolote recorded somewhere of a student, who, having detected upon in the sum communicated his discovery to a worthe priest: 'My son,' replied the priest, 'I lure read Aristotle many times, and I assure you there is nothing of the kind mentioned by him: Go rest in pence; and be certain that the spots which you have seen are in your eyes, and not in the sun." When Rames solicited the permission of Bern to teach in Genera, he was told, "the Generose have deereed once for all, that neither in logic, nor in any other branch of knowledge, will they depart from the comons of Armtotle-se testilloss saides ab Aristotelis scalestid deflectore.' It is well known that the Stagistic narmaly escaped being ennonized as a Saint. Are you for or against Aristotle? was the question of philosophy; and the piquant report of this ameroratemaryia is the fact that both parties were often ignorant of the real comions of the Stagirite, attributing to him indeed doctrines the very reverse of what a more ample knowledge of his writings has shown to have been his.

Brune, us we said, took his stand opposite to the Aristotelians. Pythagons, Plato, and Plotions were his teachers. Something of temperament was have originated this; for Bruno undoubtedly belongs to that class of thinkers in whom logic is but the lumburied of Imagination and Fancy. To him the Aristotle of that age was antipathetic. The Aristotleians thught that the world was finite, and the heavens incorruptible. Bruno declared the world to be infinite, and subject to an eternal and universal revolution. The Aristotleians proclaimed the immobility of the earth: Bruno proclaimed its rotation. Such open dissidence could of course only energe the party in power. It would have been sufficiently andacious to prunulgate such absordities—barrends process afsordississe—as the rotation of the earth; but to dely Aristotle and ridicule his logic, could only proceed from insunity, or impiety. So Bruno had to dy.

To Genera he first directed his steps. But there the power which had proved stronger than the partisans of Servetus, was still dominant. He made his escape to Toulouse; there he raised a storm among the Aristotelians, such as compelled him to fly to Paris. Behold him then in Paris, the streets of which were still slippers with the blood of the Eve of St. Bartholomew. One expects to see him bitchered without mercy but, by some good fortune, he obtains the favour of Henry III., who not only permits him to lecture at the Sarbonne, but offers to admit him as a salaried professor, if Bruno will but attend Mass. Is it not strange that at a time when attendance at Mass was so scroom a matter, when the echoes of that lagabrious cry, in Messe as in most / which had resounded through those mirror murky streets, must have been still ringing in men's cars,-Branc, in spite of les refound, not only continued to lecture, but became exceedingly popular? Since Abeliard had captivated the students of Paris with his facile eloquerice and startling nourlties, no tearber had been so enthusinstically received as Bruno. Young, handsome, cloquent, and facetions, he charmed by his manner no less than by his matter. Adopting by turns every form of address-rising into the aerial altitudes of imagination, or descending into the kennel of obscenity and huffomery-now grave, prophethke, and impussioned-now fierce and contraversial -now fanciful and hamorous- he threw aside all the menotony of professional gravity, to speak to them as a man. He did not on this occasion renture openly to combut the perjudices and doctrines of the age; that was reserved for his second visit, after he had learned in England to speak as became a free and curnest man.

To England let us follow him. On the mosty banks of our soble. Thames, he was raddy initialed into the lentality of the English character; but he was amply compensated by his reception at the Court of Elizabeth, where a friendly welcome avaited all floriguess—especially Italians. Nor was his southern heart cold to the exquisite beauty and incomparable grace of our nomen. England was worth visiting; and he had reason to refer with pride to 'quanto passe Britannico a cui devianne la freelita ed amore operale.' It was in England he published the greater part of his Italian works. It was here perhaps that the serverest part of his life was spent. Patronicol by the Queen (l'union Diana qual è tra use, qual she tra gli astri il sole,' as he coile her), he had the glory and the happiness to call Sir Philip Sidney friend.

In the high communion of noble minds, in the interchange of great thoughts and glorous aspirations, another than Brone might have been content to leave the world and all its errors in peace; but he had that within him which would not suffer him to be at rest. He could not let the world wag on its way, content to smile on its errors. He had a mission—without the cont of a mission. He was a soldier, and had his battles to fight. In the society of Sir Philip Sidney, Sir Fulke Grerille, Dyer, Harvey, and most probably of Autonio Perez and Shakspeare's Florio, Bruno might have discussed with columns every question of philosophy,—that as, had he been of an epicurean turn—had he not been Bruno. As it was, bired by his passion for publicity—by his vanity, no less than by his loss of truth—he maked into the arcma.

"Confident on in the folcor's fright."

If we attribute to him motives not altogether pure—if we see as much estentialism as devotion in this conduct, let it be remembered, that in this life the great aims of humanity are worked out by Assaus means, wherein the impure and selfab are as much vital elements as the noble. In the great mechanism there are numberless trivial wheels, and littheness is often the accessory spring of some beaute act. This is no remeasion to the school of Rochefmountle. That school makes the great mistake of attributing the spleadour of the sun to its spots,—of deriving the greatness of human matter from its littleness. A selfah impulse will often mingle with the machida impulses which prompt an heroic set. We have only to reflect on the nancrous austances of selfah impulse unaccessagealed by any heroism, to be assured that if selfableness and disinterestedness may be

found conjoined in the mingled woof of human nature, it in nowise alters the fact of disinterestedness, it in nowise lessens the worthiness of herosom. What philosophy is that which sees only vanity in martyrdom, only love of applause in the during proclamation of truth? Gold without dross is not to be found in the earth; but is it therefore copper?

Let us follow Bruno's course with other feelings than those of a short-sighted philosophy. It was not very long after his arrival in England (1583) that Leicester, then Chancellor of Oxford, gave that splendid file in honour of the County Palatine Aftert de Lasco, of which the annals of Oxford and the works of Bruno have preserved sour details. In those days a foreigner was 'lionized' in a more grandiose style than modern Amphitryons attempt. It was not dermal sufficient to ask the illustrious stranger to 'breakfast,' there were no 'dinners' given in public, or at the clab. The age of tournaments had passed away; but there were still the public discussions, which were a sort of passage-of-arms between the knights of intellect. And such a tourney had Leicester prepared in bonour of the Pole. Oxford called upon her doughty men to brighten up their arms,-that is to say, to shake the dust from their volumes of Aristotle,-and all courses were challenged. Brune stepped into the arena. Oxford chose her best men to combat for Aristotle and Prolemy. On that cause her existence seemed to depend. Her statutes declared that the Backelors and Masters of Arts who did not faithfully follow Aristotle were liable to a fine of five shillings for every point of divergence, or for every fault-committed around the Organus. Bruno withily called Oxford the andow of sound learning - 'In verlows di buone lettere."

The details of this 'wit combat' are unknown to us. Bruno declares that fifteen times did he stop the month of his pitiable adversary, who could only reply by alone." But there is considerable forfeateric about the Neupolitan, and such statements must be received with cantion. That he created a 'separation' we have no

^{*} Andate in Otomia e fatora saccastar le cose introventie al Nelssoquando publificamente disputis con que dettori in teologia in procuzas del Principe Alasco Policco, et altri de la nobilità implese! Feteri dire come si supes rispondere a gli argomenti, como sestis per quiedici sillogiami quiantes volte qual pulcino entre la stoppa quel porveo dottor, che como il curifio de l'accas demis no puòsero aranti in questa gravo occasione! Futeri des con quanta incivilità e discortesia proceden quel petro, e con quanta parsenna et unantità quell'altro, che in fitto mostrava essece Napeletano nato et allerate autto più benigno ciclo! —Le Gran de le Cascoi - Opp. Rel. ii. 179.

doubt; his doctrines were sufficiently startling. We also find him, on the strength of that specess, soliciting purmission of the Oxford Senate to profess openly. With his usual arrogonce he styles hanself, in this address, as a 'socior of a more perfect theology, and professor of a purer wisdom," than was there taught. Strange as it may appear, permission was granted; probably because he had the patromage of Elizabeth. He lectured on cosmology, and on the immortality of the soul; a doctrine which he mountained, not upon the principles of Aristotle, but upon those of the Neo-Platonists, who regarded this life as a brief struggle, a sort of arous of death, through which the soul most case ere it attuins to the saleufour of existence in the eternal and universal life. In the deep mournels. able desire which is within us to unite ourselves with God, and as quit this miserable sphere for the glorious regions of eternity, is the written conviction of our future existence. No doubt he preached this doctrine with stirring cloquence; but it must have sounded very heterodex in the cars of that wise conclave-styled by Bruno a constellation of pedants, whose ignorance, presumption, and rustic radicacs would have exhausted the patience of Job."and they soon put an end to his lectures."

We have already intimated the protection which Elizabeth accorded him, and which he repaid by adulation, extravaguat enough, but which was then the current style in speaking of rogalty; and it should not be forgotten that this praise of a Protestant Gueen was not among the least of his crimes in the eyes of his accisers. Still, even Elizabeth could not protect a heartie; and Brano's andactions eloquence roused such apposition that he was forced to quit England. He returned to Paris, once more to court the favour of the Quartier Latin. He obtained permission to open a public disputation on the physics of Aristotle. For three successive days did this dispute continue, in which the great questions of nature, the universe, and the returnion of the earth were discussed. Brano had thrown uside the veil, and presented his opinions maked to the gate. His impetuous onslanght upon established epinions produced the natural result: he was forced again to fly.

We next find him in Gremmy, carrying the spirit of innovation into its august universities. In July, 1586, he matriculated as theologic doctor Reseasewise in the university of Marburg, in Hesse; but remission to teach philosophy was refused him of confuse causes.

Whereupon be insulted the Rector in his own bouse, created a disturbance, and insisted that his name should be struck off from the list of members of the University. He set off for Wirremberg. His reception in this centre of Lanhermnism was so gratifying, that he styled Wartemberg the Athens of Germany, 'Your instice,' he writes to the Senate, I has refused to listen to the insinuations cirgalated against my character and my opinions. You have with admirable impartiality permitted me to attack with rehemence that philosophy of Aristotle which you prize so highly." For two years did he teach there with nour popularity, yet on the whole with tolerable produce in not speaking against the pseulinr views of Lutheranism. He even undertook a defeace of Satura; but whether in that spirit of pity which moved Burns, or whether in the spirit of Indiconcry which delights to play with awful subjects, we have no means of ascertaining. He did not offend his audience, in whatever spirit be treated the subject.

Here, then, in Würtemberg, with admiring audiences and free scope for discussion, one might fancy he would be at rest. Why should be leave so enoughle a position? Simply became he was not a mon to rest in goes and quiet. He was prooned with the spirit of a reformer, and this arged him to carry his docrines into other cities. Claracteristic of his andacity is the next step he took. From Wirtemberg he went to Progue; from the centre of Luthermism to the centre of Catholicism! In this he had recknoed too much on his own powers. He met with neither sympathy nor support in Prague. He then passed on to Helmstallt, where his fame having preceded him, the Dake of Brunswick conferred upon him the honourable charge of obserating the hereditary Dake. Here again, if he had consented to remain quiet, he might have been what the world calls "successful;" but he was troubled with convictiousthings so impedimental to success!-and three drew down upon him a sentence of excommunication. He justified himself indeed, and the emission was removed; but he was not suffered to remain in Helmstadt; so he passed to Frankfort, and there in quiet, bines retirement published three of his Latin works. Here a block occurs in his annals. When next we hear of him he is at Paden.

After an absence of ten years, the scandever returns to Italy, In his restless course, he has traversed Switzerland, France, England, and Germany; his band against every man, and every man's hand against him. Heretic and immovator, he has irritated the clergy without securing the protection of philosophers. He has sneight no protection but that of truth. That now he should choose Pathen above all places, must over excite our automishment. Padus, where Aristotle reigns supreme! Padus, which is overshadowed by Venice and the Inquisition! Was he weary of life, that he thus marched into the enup of his enemy? or did he rely on the force of his convictions and the vigour of his eloquence to triumph awn in Padus? None can say. He came—he taught—he field. Venice received him,—but it was in her terrible prison. Lovers of exincidences will find a piquant illustration in the fact that at the very moment when Bruno was thrown into prison, Galileoopened his course of mathematics at Padus; and the six years in which Galileo occupied that mathematical chair, were the six years Bruno spent in miserable captivity.

Bruno's arrest was no somer effected than intimation of it was sent to the Grand Inquisitor San Severina, at Rome, who ordered that the prisoner should be sent to him, under excert, on the first opportunity. Thomas Morosini presented himself before the Sari of Venice, and demanded, in the name of his Emisence, that Bruno should be delivered up to him, "That man," said he, " is not only a heretic, but an heresisrch. He has written works in which he highly lands the Queen of England and other heretical princes. He has written diverse things touching religion, which are contrary to the faith.' The Savi, for some reason or other, declined to give up their prisoner, saying the matter was too important for them to take a sudden resolution. Was this mercy? Was it cruelty? In effect, it was exactly; for Brano languished six years in the prisons of Venice, and only quitted them to perish at the stake, Six long years of captivity-worse than any death. To our so ardent, solitude itself was punishment. He wanted to be among men, to combat, to argue, to live; and he was condemned to the fearful solitades of that prison, without books, without paper, without friends. Such was the repose which the weary wanderer found on his native soil.

His prison doors were at length opened, and he was removed to Rome, there to undergo a trilions and fruitless examination. Of what use was it to call upon him to retract his opinions? The attempt to convince him was more rational; but it failed. The tiresome debate was needlessly prolonged. Finding him insensible to their therats and to their logic, they brought him, on the 9th of February, to the palace of San Severino; and there, in the presence of the cardinals and most illustrious thrologians, he was forced to kneel and receive the sentence of excommunication. That sentence passed, he was handed over to the social authorities, with a recommendation of a 'punishment as merciful as possible, and without effusion of blood'—ut quasi elementicised et citea amquisis effusioness penisotar,—the atrocious formula for burning alive.

Calm and dignified was the bearing of the victim during the whole of this scene. It impressed even his persecutors. On hearing his sentence, one phrase alone disturbed the unalterable sevenity of his demeanour. Basing his head with houghty superiority, he said, 'I suspect you pronounce this sentence with more fear than I receive it.' A delay of one week was accorded to him, in the expectation that fear might force a retractation; but the week expired, and Bruno remained immovable. He perished at the stake; but he died in the martyr spirit, self-sustained and silent, welcoming death as the appointed passage to a higher life.

"Fendo i ciele e a l'infinito m'ergo."

Bruno perished the victim of intolerance. It is impossible to read of such a punishment without strong indignation and disgust, There is, indeed, no page in the musals of mankind which we would more willingly blot put, than those upon which functicism has written its bloody history. Frivolous as have often been the pretexts for shedding blood, none are more abborrent to us than those founded upon religious differences. Surely the question of religion is awful enough in itself! Men have the deepest possible interest in accomining the truth of it; and if they cannot read the problem aright by the light of their own convictions, will it be made more legible by the light of an outs-de-fe? Tolerance is still for from being a general virtue; but what seems of struggle, of violence, and of persecution has the world passed through, before even the present molicum of tolerance could be gained! In the sixteenth century, free thought was a crime. The wisest men were bitterly intolernat; the mildest, cruel. Campanella tells us that he was lifty times imprisoned, and seven times put to the torture, for chring to think otherwise than those in power. It was indeed the age of persecution. That which made it so bloody was the whemence of the struggle between the old world and the newbetween thought and established dogma-between science and tradition. In every part of Europe-in Rome itself-men aprese to utter their new doctrines, and to shake off the chains which

enslaved homen intellect. It was the first great crists in modern history, and we read its progress by the hontires highest in every town. The glare of the stake reddened a sky illumined by the fair auroral light of Science.

Did Bruno deserve to dir? According to the notions of that age, he certainly did; though historians have, singularly enough, puzzled themselves in the search after an adequate motive for so severe a punishment. He had penised heretical princes; he had reasoned shilosophically on matters of faith-properly the subjeets of theology; he had proclaimed liberty of thought, and investigation; he had disputed the infallibility of the Church in science; he had propagated such heresics as the rotation of the surth, and the infinity of worlds; he had refined to attend Mass; he had repeated many hollomeries then circulating, which threw concerns upon sacred things; finally, he had taught a system of Pantheism, which was altogether opposed to Christianity. He had done all this; and whoever knows the exteenth contary, will see that such an innesator had no chance of escape. Accordingly, the flames (as Scioppins surcastically wrote in describing the execution to a friendly 'earried him to those workly which he imaginal."

'As men die, so they walk among posterity,' is the felicitous remark of Monekten Milues; and Bruno, like many other new, is better remembered for his death than for anything he did while living. The flames which command his body have enhanced his serus. He knew it would be so—'La morte of an secolo fa viso in traffiglialari.'

Considered as a system of philosophy, we cannot besints in saying that Bruno's has only an historical, not an intrusic value. Its condemnation is written in the fact of its neglect. But taken historically, his works are very curious, and still more so when we read them with a biographical interest; for they not only illustrate the spech, but exhibit the man,—redibit his impertuosity, recklesness, vanity, imagination, bufferday, his theroughly Neupolitan character, and his sincere love of truth. These who wish to see grave subjects treated with fignity, will object to the limits he allows himself, and will have no tolerance for the bud taste he so often displays. But we should rather look upon these works as the rapid productions of a restless athlete—as the improvisations of a full, ardent, but irregular units, in an age when taste was less fistidious than it has since become. If Bruno mingled buffernaries and observation with grave and weighty topics, he therein calls follows the general license of that age; and we must extend to him the same forgreeness as to Bembo, Ariosto, Tansillo, and the rest. Plate himself is not wholly exempt from the same defect.

In adopting the form of dialogue, Bruno also followed the taste of his age. It is a form emmently suited to polemical subjects; and all his works were polymical. It enabled him to ridicale by turns the pelants, philosophers, and theologisus; and to enusciate certain doctrines which even his temerity would have shrank from. had be not been able to place them in the mouth of another. He makes his dialogues far more entertaining than works of metaphysics mustly are; and this he does by digressions, by ridicule, by elopience, and a liberal introduction of somets. Sometimes his very vivarity becomes wearisome. The newfer is stimmed and bewildered by the removedess torrest of substructives and egithets which pours from his too prolife gen. There is nobody to rival him, but Rabelan, in this flux of words." His great betts are the rlengy, and the philosophers. He reproaches the former with ignurance, avarice, hypocrisy, and the desire to stife inquiry and prolong the reign of ignorance. The philosophers he reproaches with blind afference to methority, with stupid reverence for Aristotle and Ptolemy, and with shrink mitation of antiquety. It should be observed that be does not so much deery Anistotle, as the idolatey of Aristotle. † Against the polantry of that pedantic. age he is always harling his thunders. "If," says he, in one place, characterizing the pedant, 'he laughs, he calls himself Democritisa; if he weeps, it is with Herselitus; when he argues, he is Aristotle; when he combines chimeras, he is Plato; when he statters, he is Demosthenes.' That Bruno's scorn spring from no misology, his own varied credition proves. But while he studied the ancients to extract from them such eternal truths as were baried amidst a mass

[&]quot;To give the reader a taste of this quality, we will one a mateure from the dedicatory eposite to Giv Eroca Florents: "Che apettarone, o Die bassed più vila e appethie può presentaria ad un cochia di terso sentimento, che un tomo cogitabando, affiitto, termentata, triate, maninecciosa, per divenir ce frealda, er calda, ce ferrente, er bramerio, er pullido, er rosso, or in mina di perplesso, ce in atto di risofato, un, che spunde il ungliar intervallo di tempo destillando l'elitia del cervello con mettere scritto e sigillar in pubblici mocratecati, quelle continue termire, que' grari termenti, que' succendi discersi, que' fatnosi pensersi, e quelli amuniciani stadi destinati acto la timanide d'una indepas imbre ille sistes o mana speccaria l' Thur is commune for same fifty fuera more :—Orp. Rec'. ii. 200.

Vida Opp. Haf. G. 67, where this is explicitly stated.

of error, they, the pedants, only studied how to deck themselses in horrowed plumes.

Turning from manner to matter, we must assign to Bruno a place in the history of philosophy, as a successor of the Neo-Plabmists, and the precursor of Spinous, Bescartes, Leibnitz, and Schelling. That Spinora and Descartes were actually conversant with the writings of Giordano Bruno does not distinctly appear. Yet it is not to be disputed that Bruno anticipated Spinous in his conception of the renouncement of the Deity, in his famous authors naturens and wetern auturate, and in his profiberatio theory of evolution. He also anticipated Descartes' famous criterium of truth, viz. that whatever is clear and evident to the mind, and does not admit of contradiction, must be true; and in his proclamation of Doubt as opposed to Authority, he thus insists upon Doubt as the startings point: 'Chi vast perfettamente giudicare dere saper spositiorii de la connetudiae ili credece, deve l'una e l'altre controdittoria cristinare equalmente possibile, è diresettere a fatta quell'affezione di cui è habibets do noticità." Leibnitz was aroundly acquainted with Bruno's works, and derived therefrom his theory of monads. Schelling makes no secret of his obligations.

There is another merit in Bruno which should not be overlooked, that, namely, of giving a strong impulse to the study of Nature. Occupied with Syllogisms about entities and quiddities, the philosophy of the Middle Ages had missed the great truth that 'man is the minister and interpreter of nature.' Philosophy taught that the interpretation could proceed only from scilling; that men were to look into their own minds to analyze, subdivide, and classify their own ideas, instead of looking forth into Nature, and patiently observing her processes.† Bruno was one of the first to call men out into the free sir. With his poetical instinct he naturally looked to Nature as the great back for man to read. He deded Nature i and looked upon the Universe as the garment of God, as the incursation of the drine activity. Let not this be misunderstood, however. If Bruno embraced the Copernican theory, and combated the general physics of his day, he is not on that account to be mis-

^{*} Do I Infinite Colorese - Month! Opp. Rat. ii. 84.

[†] It is of them Televis energetically says: 'Sod voluti case Dec de superatif controdentes decertastesque, mundi iquius principa et sumus ratione inquierre anni, et que non inveneraid, inventa en abi une existinantes, relationque, schuti une arbitrate, mandam affantere.'—De Reven Maturi, in Process.

taken for a man of scientific Method. He espoused the correct view of the earth's sphericity and rotation; but he did so on the faith of his metaphysical theories, not on rigorous induction.

Brane's creed was Pantheisas. God was the Infinite Intelligence, the Cause of causes, the Principle of all life and mind; the great Activity, whose action we name the Universe. But God did not exeste the universe; he isfarmed it with life—with being. He is the universe; but only as the cause is the effect, sustaining it, consists it, but not limited by it. He is self-existing, yet so essentially active as increasantly to manifest himself as a Cause. Between the supreme Being and the inferior beings dependent upon him, there is this distinction: He is absolutely simple, without parts. He is one whole, identical and universal, whereas the others are more individual parts, distinct from the great Whole. Above and beyond the visible universe there is an Infinite Invisible,—an immovable, unalterable Identity, which rules over all diversity. This Being of Beings, this Unity of Unities, is God: 'Deus est menadum monus, names entium entities.'

Bruno says, that although it is impossible to conceive nature separated from God, we can conceive God separated from nature. The infinite Being is the essential centre and substance of the universe, but he is above the cosence and substance of all things; he is superessentialis, supersubstantistic. Thus we cannot conceive a thought independent of a mind, but we can conceive a mind spart from any one thought. The universe is a thought of God's mind -uny more, it is the infinite activity of his mind. To suppose the world finite is to limit his power. Wacrefore should we imagine that the Disine activity (in dirine effencia) is title? Wherefore should we say that the Divine goodness, which can communicate itself ad infinitus, and infinitely diffuse itself, is willing to restrict itself? Why should his infinite capacity be frustrated-defrauded of its possibility to create infinite worlds? And why should we defice the excellence of the Divine Image, which should rather reflect itself in an infinite mirror, as his nature is infinite and immense in

Bruno admits the existence of only one intelligence, and that is God. Est Dens is notis. This intelligence, which is perfect in God, is less perfect in inferior spirits; still less so in man; more and more imperfect in the lower gradations of created beings. But

^{*} Ib ! Johnson (pp. Ital ii 24

all these differences are differences of degree, not of kind. The inferior order of beings do not understand themselves, but ther have a sort of barguage. In the supersor orders of beings, intelligener arrives at the point of self-consciousness—they understand themselves, and those below them. Man, who comples the middle position in the hornerby of covation, is capalify of contemplating every phasis of life. He sees God above him-he sees around him traces of the divine activity. These traces, which affect the immutable order of the universe, constitute the soul of the world. To rollect them, and connect them with the Bring whence they issue, is the noblest function of the human mind. Bruno further teaches that, in proportion as man labours in this direction, lo discovers that these traces, spread abroad in maure, do not differ. from the ofear which exist in his own mind." He thus arrives at the perception of the identity between the soul of the world and his own soul, both as reflections of the Diviso intelligence. He is thus led to perceive the identity of Subject and Object, of Thought and Being.

Such is the faint outline of a dectrine, to preach which Bruno became a boundess wandever and a marryr; as he lothly mys, "Conquesta filesofts I' anima mi s' aggrandiare, e air al anguijtee I' hard-lette." If not original, this dectrine has at my rate the merit of poetical grandeur. In it deep thoughts, wroaling with imperfect language, do get some sect of utterance. As a system, it is more imaginative than logical; but to many minds it would be all the more acceptable on that account. Coloridge used to say, and with truth, that imagination was the greatest faculty of the plabsopher; and Bruno said, 'Philosophia sant quadatumento pictores asper poeta.... Non-est philosophus aisi fingit et pingit.' Lettle as the dull man of science may be aware of it, the great faculty of imagination is indispensable even to his science; it is the great telescope with which we look into the infinite. But in metaphysica imagination plays a still greater part; it there reigns us a specie.

The works of Bruzo are mostly in Italian, Latin lucing been happily reserved by him for the logical treatises. The volumes which we owe to the honourable diligence and love of philosophy

^{*} East. What is the purpose of the source 8—Fig. . Solely to excite the straint; to indicate the truth, but not to judge of at. Truth is in the smaller object as in a mirror; in the reason, so a matter of argument; in the intellect, as a principle and constraint ; but in the mind it has its true and proper form——De C Lutarto, p. 15.

of Adolph Wagner, open with the comedy, Il Condolojo, which was adapted to the French stage under the title of Boulface le Pédant, from which Cyrms de Bergerae took his Pédaul José,-a piece which in its turn was plumfered by Molière, who, with charming wit and eardone, avons it: 'Ces deux seènes (in Cyrans) étaient bonnes; elles m'appartennient de plein droit; on represe son bien partout of on to trome," According to Charles Notice, Molière was indebted to Bromo for asveral seemen; but it is difficult to settle questions of plaginrism. Bruno's comedy is long, full of abourd incidents and Neupolitan buffactory, and might have suggested a good deal to such a prolific mind as Molière's. In it he has exhibited the amprousness of one old man named Boulfacio, the sordid avaries of another named Bartelomeo, and the pedantry, not less worlid, of a third maned Manfuric." Ladies of sucillating virtue, soldiers, sailors, and seamps concert together to decrive these three old men, and wring money from their sensuality, their avance, and their superstition. Bunifacia, desperately in love with Vittoria, is nevertheless alarmed at the enormous expense necessary to make his addresses acceptable. He had recourse to Scaramure, a reputed magician, who wills him a wax figure, which he is to melt, and thus melt the obduste heart of his fair one. After a succession of disasters. Bonifacio is seized by pretended police, who force from him a heavy mason. Bartologges becomes the dage of Centin, an imposter, who sells him a receipt for making gold. Manforio, the pedant, is beaten, robbed, and ridicided throughout. The sensualism and niggardliness of Bonifacio, and the pedantry of Manfurio, are

While on this subject, we enable room Plane's lines ;-

[&]quot;This is, perhaps, the wittent of all the variations of the "percent male qui auto nos austra dissecut." The Cheralies D'Anvilly's version is worth citing on

Dissip quelque obtes annu helle? L'antiquité tout ou cervelle Prétend l'aroir dite avant moi. C'est une plaisante doundle! Que ne venuit-elle après moi? J'annis dit la cleux avant elle!

Be out dit, il est vrai, presque tout ce qu'un peuse.

Leurs écrits sont des vois qu'ils nous out fiits d'armon.

Mais le remôde est simple ; il fout faire comme eux,

Es nous out dérobée ; dévideux nos arrent.

Un décara triomphant n'élère à cet emploi :

Matheur aux écrivains qui vieudront agrès mai :

hit off with true comic spirit; and the dialogue, though rambling and diffuse, is enlivened by lazzi—not always the most decent, it is true—and crowded with proverbs. Dramatic art there is none; the persons come on and talk; they are succeeded by fresh actors, who, having talked, also retire to give place to others. The whole play leases a very confused impression. The bits at alchemy and padantry were, doubtless, highly relished in those days.

It is very strange to pass from this comede to the work which succeeds it in Wagner's edition, La Cesa de le Cevere. In Secdialogues he combats the hypothesis of the world's immobility; proclaims the infairty of the universe, and warms as against seeking its centre or circumference. He enlarges on the difference between appearances and reality in celestial phenomena; argues that our globe is made of the same substance as the other planets, and that everything which is, is living, so that the world may be likened to a huge mimal." In this work he also menors his objectors, who bring against his system the authority of Scripture, exactly in the same way as modern geologists answer the same objection, via. by declaring that the revelation in the Bible was a moral not a physical revelation. It did not pretend to teach science, but, on the contrary, adopted ordinary notions, and expressed itself in the language intelligible to the sulgar. In this work there are some digressions more than usually interesting to us, because they refer to the social condition of England during Elizabeth's reign.

The two works, De to Come and De l'Infinito, contain the most matured and connected exposition of his philosophical opinions. As our space will not admit of an analysis, we must refer to that amply given by M. Bartholmess, J. The Spaceto de to Bestia Tricofinite is the most celebrated of all his writings. It was translated by Toland, in 1713, who printed only a very few copies, as if wishing it to fall into the hands of only a few choice readers. The very title

An idea forceword from Plato, who, in the Planess, says, Odrac sile \$6 area hople rise claims for higher visits also along five Laplaces become re visits for rise and floor protection approximation.—p. 20, ed. Bekker. Compare also Politicus, p. 273. Hence may have taken this directly from Plato, or he might have learned it from the work of his countryman, Televic, De Roum Natural.

^{† &#}x27;Secondo il senso religare et ontinario modo di comprendere e parlare.'
The whole of the early portion of Dialogue 4 (in which this distinction is maintained) is worth consulting.—Opere, p. 172 sq.

⁷ Vol. in pos 129-154:

ias been a sad parale to the world, and has fed to the strangest suppositions. The 'Triumphout Beast,' which Britis undertakes to rapel, is none other than this: ancient astronomy disfigured the larrens with animals as constellations, and under guise of expelling these, he attacks the great bank (superstition) whose prodominance causes men to believe that the stars influence human affairs. In his Cafeda del Cavallo Pegoseo, he successivally calls the ass "In bestia trioufante viva," and indites a seamet in praise of that respectable-quadruped.

> *Oh mat' priside, mut' ignomaza, Sama stellion, e più diveriore; Qual cole pace far l'access si barras. Ch' mune inpegno e studio non l'access l'ac-

The Spaceto is an attack upon the superstitions of the day,-a war against ignorance, and that orthodoxy without morality, and without belief, which is the min of all justice and virtue." Morality Bruso fracifully calls the astronomy of the heart;" but did not even Bacon call it "the Georgies of the mind"? The Spaceis is a strange modley of learning imagination, and buffoonery; and on the whole, perhaps the most tiresome of all his writings. M. Bartholmess, whose admiration for Bruno greatly exceeds our own, says of it; "The mythology and symbolism of the ancients is there employed with as much tact as eradition. The fiction that the modern world is still governed by Jupiter and the court of Olympus, the mixture of reminiscences of chiralry, and the marvels of the middle ages, with the tales and traditions of antiquity-all those notions which have given birth to the philosophy of mythology, of religious, and of history-the Vicos and the Creuzers-this strange medley makes the Speccio so interesting. The philosopher there speaks the noble language of a moralist. As each virtue in its turn appears to replace the vices which disfigure the beavens, it learns from Jupiter all it has to do, all it has to avoid; all its attributes are connecated and explained, and mostly personified in the allegorical vein; all the dangers and excesses it is to avoid are characterized with the same vigour. Every page reveals a raretalent for psychological observation, a profound knowledge of the heart, and of contemporary society. The passions are salitly mulyzed and well painted. That which still more captivates the thoughtful render is the sustained style of this long fiction, which may be regarded as a sort of philosophic sermon. Truth and wisdom, justice and candour, take the place in the future now occupied

by error, folly, and falsehood of every species. In this last respect the Speccio has sometimes the style of the Apocalypus.

Without impogning the justice of this criticism, we must add, that the Species taxes even a bookworm's patience, and ought to be

read with a liberal liceuse in skipping.

Perhaps of all his writings, Gli Erosci Favori is that which would most interest a modern reader, not carious about the philosophical sporulations of the Neupolitan. Its proligality of somets, and its mystic exaliation, carry us at once into the heart of that enorh of Italian culture when poetry and Plato were the great studies of earnest men. In it Bruno, avoning himself a disciple of Petrarch, proclaims a Donna more exalted than Laura, more adorable than all earthly beauty: that Donna is the imperishable image of Divine Perfection. It is unworthy of a man, he says, to lauguish for a woman; to sacrifice to her all those courgies and faculties of a great soul, which might be devoted to the pursuit of the Divine. Wisdom, which is truth and beauty in one, is the idol adored by the genuine hero. Love woman if you will, but remember that you are also a lover of the Infinite. Truth is the food of every heroic soul; hunting for Truth the only occupation worthy of a hero." The reader of Plato will trace here a favourite image; and was it not Berkeley who defined Truth as the cry of all, but the game few run down?

^{*} Fish, in particular, the flut passage, Oyp. Jest u. 406-7;

FIRST EPOCH.

FOUNDATION OF THE INDUCTIVE METHOD.

§ I. THE LAPE OF BACON.

PRANCIS BACON was born on the 22nd January, 1561. Mr. Basil Montagn, the laborious and affectionate (we had almost said idolatrous) biographer of Bacon, wishes us to believe that the family was assisted and illustrious; and factours us with rhetorical flourishes about Bacon retiring to the 'balls of his accessors.' This is somewhat followed from the story of Bacon's grandfather having kept the about of the Abbot of Bury."

But although we can claim for Bacon no illustrious ancestry, we must not forget his excellent parentage. His father, Sir Nicholas, was generally considered as ranking next to the great Burieigh as a stateman. His mother, Anne, daughter of Sir Anthony Cooke, was distinguished both as a Buguist and as a theologian. She corresponded in Greak with Bishop Jewel, and translated his Apologic from the Latin so correctly, that neither he nor Bishop Parker could suggest a single alternation."

His health was very deficate, which made him sedentary and refective. Of his youth we know little, but that little displays the reflective tendency of his mind. At the uge of twelve he discussed the point as to how a juggler could tell the card of which a man thought; he at first ascribed it to a confederacy between the juggler and the servants, till he at host discovered the law of the mind on which the trick depends. We hear also of his bearing his playfellows to examine the cause of an echo which he had observed in a vault. At thirteen he was entered at Trinity College, Cambridge, where he saon felt a perfound contempt for the course of study

Errept.

See this question of lineage, and a great many other carious points, satisfacturily settled in an article on the Lives of Boson, London Berriew, Jun. 1836.
† Killah Review, July 1837, p. 0. This is the beilliant article on Baron, by Macaulay, which has excited so much attention. It is reprinted in the

pursued there, and an inveterate secen for Aristotle and his followers. It is said that he there planned his Noruse Organics; but this is highly improbable. What he did was perhaps to sketch some new scheme of philosophical study, originated by his contempt for that in vogue. There must however be a wide difference between the sketch of a boy, prompted by contempt for reigning opinions, and the wise maturity of his greatest work, the fruit of a life's meditations.

On leaving Cambridge, he visited Paris, Poitiers, and other parts of France, from whence he was recalled on the sudden death of his father. 'Being returned from travaile,' says Dr. Rowley, 'he applyed himself to the study of the Common Law, which he took upon him to be his profession; in which he obtained to great excellency, though he made that (as himself said) but as an accessory, and not as his principall study.'

In 1590 he sat in Parliament as Member for Midflesex. He seen become distinguished as an orator and as a debater. We have the testimeny of an admirable judge to assure us that Bacon's oratory was worthy of his other powers. Ben Jamon thus writes: 'There largerned, in my time, one noble speaker, who was full of gravity in his speaking. His language, where he could spare or pass by a jest, was nobly conscrious. No man ever spoke more nearly, more pressly, more weightily, or suffered less emptiness, less idleness, in what he uttered. No member of his speech but consisted of his own graces. His honcers could not cough or look aside from him without loss. He commanded when he spoke, and had his judges angry or pleased at his devestion."

A grave biographical question, namely that of Bucon's political and moral conduct, must be passed over by us without a word of comment, because the question is too complicated and critical for any succinct nutrative. That us pass on to the year 1616, when Sir Francis Bacon was sween of the Privy Conneil; and in March, 1617, on the retirement of Lord Brackley, was appointed Keeper of the Great Scal. His administration was anything but pure-

^{*} Her Jonson, Undergrouds: In the Directories, Ben also speaks admiringly and effectionately of him.

[†] In the former edition, Mr. Macaulay's view of this question was adopted; but on the over of the appearance of that Imagepeanised collision of Boom's works, in which Mr. Speeding is to give the results of his exhaustive study of this question, it seems desirable not to repeat statements which may turn out errossoms when all the evidence is produced.

He was the tool of Buckingham, who was altogether unserupators. On his own account, too, he accepted large presents from persons engaged in Chancery suits: His enemies revloced his gains in this way at a handred thousand pounds; an immune sum in those days, and probably exaggerated. His works had spread his fame throughout Europe. He had also been created Baron Verulam; and subsequently Viscount St. Alben's. We have every reason to believe that he rained this title more highly than that of the author of the Instearchis Mayon; but, as Mr. Maczulay remarks, posterity, in defiance of royal letters-patent, has obstinately refused to degrade Francis Bacon into Viscount St. Alben's.

In the height of this prosperity a terrible reverse was at hand, He was accused of corruption, and was imprached. His removes and dejection of mind were dreadful. 'During several days he remained in his bad, refusing to see any human being. He passionately told his attendants to leave him—to forget him—never again to name his name—never to remember that there had been such a min in the world.' The charges against him were such, that the King, impotent to save him, advised him to plead guilty. He did so. The sentence he received was severe: a fine of forty thousand pounds, and to be imprisoned in the Tower during the King's pleasure. He was declared incapable of holding any office in the State, or of sitting in Purlimnent, and was bunished for life from the verge of the Court.

This sentence was not executed. He was sent indeed to the Torrer, but at the end of the second day be was released. His fine was remitted by the Crown. He was soon allowed to present himself at Court; and in 1624 the rest of his scattence was remitted. He was at liberty to sit in the House of Lords, and was summoned to the next Parliament. He did not however attend; age, infirmity, and perhaps shares, prevented him.

In his retirement he devoted himself to hiterature; and amongst other works published his nonderful treatise the Asymmetric, which, though only an expansion of his Advancement of Learning, may nevertheless be regarded as a new work.*

'The great apostle of experimental philosophy,' says Mr. Macaulay, 'was destined to be its martyr. It had occurred to bise that

^{*} If find upon comparison that more than two-thirds of this frentise are a version, with slight interpolation or emission, from the Advancement of Learning, the remainder being new matter,"—Hallans, History of Liberature of Europe, 81, 169.

snew might be used with advantage for the purpose of preventing minual substances from patrefying. On a very cold day, early in spring of the year 1626, he alighted from his coach near Highgate, to try the experiment. He went into a cottage, bought a fowl, and with his own hands staffed it with snow. While thus engaged, he felt a endden claif, and was so much indisposed that it was impossible for him to return to Gray's Inc. After an illness of about a week, he expired on the morning of Easter-shy, 1626. His mind appears to have retained its strength and liveliness to the end. He did not forget the fowl which had caused his death. In the last letter that he even wrote, with fargers which, as he said, could not steadily hold a pen, he did not omit to mention that the experiment of the snow had succeeded excellently well."

Bacon, when dying, did not disguise from himself the mountful fact, that if he had thought profoundly he had acted anworthly. Knowing at once his errors and his greatness, he said, 'For my name and memory, I leave it to men's cluritable speeches, and to foreign nations and to the next age,' His confidence was well placed. Lemiently as we cannot but think him to have been treated by his contemporaries, posterity has been still more gracious; and the reason is felicitously expressed by Mr. Macarlay: 'Turn where we will, the trophics of that mighty intellect are full in view. We are judying Mardine in sight of the Capital.'

\$ II. Brook's METHOR.

Bacon is commonly styled the Eather of Experimental Philosophy. Was he the first great experimentalist? No. Was he the most successful experimentalist? No. Was he the discoverer of some of those great laws, the application of which is the occupation of succeeding generations—was he a Copernicus, a Galileo, a Kepler, a Torriccilii, a Harvey, or a Newton? No.

He own this title to his Method, as will be understood after the following sketch, in which we shall follow Professor Playfair's exposition in his Dissertation on the Progress of Physical Science, perfixed to the Encyclopedia Britannica.

Before laying down the rules of his Method, Bacon proceeds to enumerate the causes of error—the Idale, as he terms them, in his figurative longuage, or false diventies, to which the mind had so long-been accustomed to how.* He considered this enumeration

[&]quot; Mr. Hellem was the first to point out the mistake which all modern

as the more necessary, that the same idols were likely to return, even after the reformation of science.

These idols be divides into four classes, viz :-

Idola Tribûs Idols of the Tribu.
Idola Specius Idols of the Den.
Idola Feri Idols of the Forum.
Idola Thratri Idols of the Theatre.

 The Islate of the Tribe are the cames of error founded on human nature in general. 'The mind,' he observes, 'is not like a plane mirror, which reflects the images of things exactly as they tree it is like a mirror of an uneven surface, which combines its tren figure with the figures of the objects it represents.'

Among the idols of this class we may reckon the propensity which there is in all men to find a greater degree of order, simplicity, and regularity, thus is actually indicated by observation. Thus as soon as men perceived the orbits of the planets to return into themselves, they immediately supposed them to be perfect circles, and the motion in those circles to be miform; and to these hypotheses the introcomers and mathematicians of all antiquity laboured incessantly to reconcile their observations.

The propensity which Bacou has here characterized may be called the spirit of system.

2. The Idole of the Des are those which spring from the peculiar character of the individual. Besides the causes of error common to all mankind, each individual has his own dark cavera, or den, into which the light is imperfectly admitted, and in the observity of which a tutchiry idol lurks, at whose shrine the truth is often sacrificed.

Some minds are best adapted to mark the differences of things, others to catch at the resemblances of things. Steady and profound understandings are disposed to attend earefully, to proceed slowly, and to examine the most minute differences; while those that are solding and active are ready to lay hold of the slightest resemblances. Each of these easily runs into excess; the one by eatching continuously at distinctions, the other at affinities.

 The Idale of the Forms are those which arise out of the intercourse of society, and those also which arise from language.

writers have rands respecting the menning of the wood Idol, as used by Bacon; which slows not mean idol, but fafor opposeence (climber). See the passage in Halland's Lit. of Europe, in 184-6.

S40 BACON.

Men believe that their thoughts govern their words; but it also happens by a certain kind of reaction that their words frequently govern their thoughts. This is the more peraicious, that words, being generally the work of the multitude, divide things according to the lines most conspicuous to vulgar apprehensions. Hence, when words are examined, few instances are found in which, if at all abstract, they course ideas tolerably precise and defined.

4. The Islats of the Theatre are the deceptions which have arisen from the documes of different schools.

As many systems as existed, so many representations of inaginary worlds had been brought upon the stage. Hence the name of Kohla Theolei. They do not enter the mind imperceptibly like the other three; a man must labour to acquire them, and they are often the result of great learning and study.

After these perliminary discussions Bucon proceeds, in the Second Book of his Organson, to describe and exemplify the nature of induction.

The first object must be to prepare a history of the phenomena to be explained, is all their medifications and excistion. This history is to comprehend not only all such facts as spontaneously offer themselves, but all the experiments instituted for the safe of discovery, or for any of the purposes of the meful arts. It ought to be composed with great care; the facts necurately related and distinctly arranged; their natheaticity diligently examined; those that rest on doubtful evidence, though not rejected, yet noted as uncertain, with the grounds of the judgment so formed. This last is very necessary, for facts often appear incredible only because we are ill-informed, and cease to appear nearedlons when our knowledge is further extended. This record of facts is Netwerl History.

The Natural History being prepared of any class of phenomena, the next object is to discover, by a comparison of the different facts, the case of these phenomena, or, as Bacon calls it, the form. The form of any quality in a healy is something convertible with that quality; that is, where it exists the quality exists; thus, if transparency in bodies be the thing imquired after, the form of it is something found wherever there is transparency. Thus form differs from cause in this only; we call it form or essence when the effect is a permanent quality; we call it cause when the effect is a change or an event.

Two other subjects, subsediante to Jarus, but often essential to the knowledge of them, are also occasionally subjects of investigation. These are the latent process, latent processes; and the latent schematism, latent schematisms. The former is the secret and invisible progress by which sensible changes are brought about, and seems in Bacon's acceptation to involve the principle since called the few of continuity, accepting to which no change however small can be effected but in time. To know the relation between the time and the change effected in it would be to have a perfect knowledge of the latent process. In the firing of a cannon, for example, the succession of events during the short interval between the application of the match and the expulsion of the ball, constitutes a latent process of a very remarkable and complicated mature, which however we can now trace with some degree of accuracy.

The latent schematism is that invisible structure of bodies on which so many of their properties depend. When we inquire into the constitution of crystals, or into the internal structure of plants, etc., we are examining into the latent schematism.

In order to inquire into the form of anything by induction, having brought together all the facts, we are to begin with considering what things are thereby excluded from the number of possible forms. This conclusion is the first part of the process of induction. Thus, if we are inquiring into the quality which is the cause of transparency in bedies; from the fact that the diamond is transparent, we immediately exclude rarity or porosity as well as fluidity from these causes, the diamond being a very solid and dense body.

Negative instances, or those where the form is wanting, to be

That glass when pounded is not transparent is a negative fact when the form of transparency is inquired into; also that collections of vapours have not transparency. The facts thus collected, both negative and affirmative, should, for the sake of reference, be reduced to tables.

Bacon exemplifies his Method on the subject of Heat, and though his collection of facts is imperfect, his method of treating them is extremely judicious,* and the whole disquisition highly interesting.

After a great many exclusions have been made, and left but few principles common to every case, one of these is to be assumed as the cause; and by reasoning from it synthetically we are to try if

This is Physici's judgment a different openion will presently be quoted from John Mill.

342 HADON.

it will account for the phenomera. So necessary did this exclusive process appear to Bacon that he says, 'It may perhaps be competent to angels or superior intelligeness to determine the form or essence directly, by affirmations from the first consideration of the subject; but it is certainly beyond the power of man, to whom it is only given to proceed at first by negatives, and in the last place to end in effermatives, after the exclusion of everything else.'

There is, however, great difference in the value of facts. Some of them show the thing sought for in the highest degree, some in the lowest; some whilst it simple and uncombined, in others it appears confined with a variety of circumstances. Some facts are easily interpreted, others are very obscure, and are understood only in consequence of the light thrown on them by the former. This led Bacon to his consideration of Precognitive Instances, or the comparative value of facts as means of discovery. He commentes twenty-serves different species; but we must content conselves with giving only the most important.

I. Instantic solutorie: which are either examples of the same quality existing in two bodies otherwise different, or of a quality differing in two bodies otherwise the same. In the first instance the bodies differ in all things but one; in the second they agree in all but one. Thus if the cause or forus of colour be inquired into, isutuation solutories are found in crystals, prisms, drops of den, which occasionally exhibit colour, and yet have nothing in common with the stones, flowers, and metals which possess colour permanently, except the colour itself. Hence Bacon concludes that colour is nothing also than a modification of the rays of light produced in the first case by the different degrees of incidence; and second by the texture or constitution of the surface of bodies. He may be considered as very forumate in fixing on these examples, for it was by means of them that Newton afterwards found out the composition of light.

II. The instantis migrantes exhibit some property of the body passing from one condition to another, either from less to greater or from greater to less; arriving nearer perfection in the first case, or verging towards extinction in the second.

Suppose the thing imquired into were the cause of whiteness in bodies; an isotoatia suprana is found in glass, which entire is colourless, but pulverized becomes white. The same is the task with water unbroken or dealed into foom.

III. The instentic extension are the facts which show some par-

ticular property in its highest state of power and energy, when it is either freed from impediments which usually counteract it, or is itself of such force as entirely to repress those impediments.

If the weight of air were inquired into, the Torrecellon experiment, or the harometer, affords an outcome instance, where the circumstance which conceals the weight of the atmosphere in common cases, namely the pressure of it in all directions, being entirely removed, that weight produces its full effect, and sustains the whole column of mercury in the tube.

IV. The isotonces called analogous or parallel consist of facts between which a resemblinee or analogy is visible in some particulars, notwithstanding great diversity in all the rost. Such are the telescope and microscope compared to the eye. It was the experiment of the camera obscura which led to the discovery of the formation of images of external objects in the bottom of the eye by the action of the crystalline lens, and other humours of which the ope is formed.

V. Instantie consists: examples of certain qualities which always accompany one another. Such are flame and heat: flame being always accompanied by heat, and the same degree of heat in a given substance being always accompanied with flame.

Hostile instances, or those of perpetual separation, are the reverse of the former. Thus transparency and malleability in solids are never combined.

VI. The insteatie exacts. When in my investigation the understanding is placed in equilibrio, as it were, between two or more ranses, each of which accounts equally well for the appearances as far as they are known, nothing remains to be done, but to look out for a fact which can be explained by one of these causes and not by the other. Such facts perform the office of a cross, exceed at the separation of two roads, to direct the traveller which to take: hence called exacted instances.

The experiescence erweir is of such weight in matters of induction, that in all those branches of science where it cannot be resorted to (an experiment being out of our power and incapable of being varied at pleasure) there is often a great want of conclusive evidence.

§ III. THE SPERT OF BACON'S METHOD.

We may now resume the question of Bacon's claim to the title of Father of Experimental Science. That which distinguishes his conception of philosophy from all previous conceptions is the systemaSH ELCON-

tiration of graduated Verification, as the sole Method of research, Others before him, notably Albertus Magnus, had insisted on some parts of the experimental Method : his great profecessor, and namesake, Roger Bacon had, in the Open Majer, insisted on experience as the traest guide, and had distributed the causes of error under four heads (Authority, Costons, Vulgar Projedice, and False Sciense), but no one had co-ordinated into a compact body of doctrine all the elements of the Inductive Method; and it is in this co-colination that Baom's great merit lies. Roger Bacon had said that experience alone gives accurate knowledge. Brassning concludes, but establishes nothing; even mathematical demonstration gives an complete and certain rewartion without this sanction. But this experimental science is entirely unknown to the many. It has three grand prerogatives relatively to the other kinds of knowledge. The first is, that experiment proves and verifies by its investigations the highest propositions which the other sciences can present. The secord is, that this method, which alone merits the name of mistress of speculative hoseledge, can alone attain to those subline truths which other sciences count reach; in experimental truths the mind must not seek for the reason of things before the testimony of facts, nor reject those facts because it cannot justify them by argument. The third prerogative is so peculiar to this method that it is independent of its relations with the others; it consists in two points, namely, in the knowledge of the future, the present, and the past, and in the admirable operations in which it surpasses judicial intrology,14 Many-from Socrates downwards-had insisted on Induction; but the Induction they coursived was that which Bacon calls inductio per consecutionen simplicem, and which consists in 'uscribing the character of general truths to all propositions which are true in every instance that we happen to know of it an induction perpetually made in the loose latitude of common talk, and in the less pardonable laxity of common literature. It is the actional and isotivefier action of the mind, and is thus distinguished from the circumpect Method of Science. The real ment of Bacon's comp-

^{*}This passage, translated from M. Remselot's Eleden, iii. 180, is not properly Bacon's, but an abstract of the doctrone developed and exemplified in the sixth part of the Open Mayor, pp. 445–477 of the London chitism 1733. The four causes of error we mentioned in p. 2 of the same chites. *Pragila et indigne austritatis corruptum, constantiatis distancian, rulpt scasse superiti, et proprie ignormatic socialistic cum estectatione superiti apprente.

tion was his accurate detection of this natural source of error, and his insistance on the wider and more circumspect Method of Verification.

He fid not content himself with telling men to make observations and experiments: he teld them few observations and experiments ought to be made. He did not content himself with stating the proper mode of investigation to be that of Induction founded upon facts: he distinguished proper from improper inductions—the "intercognition" from the "anticipation" of Nature.

He did this, and he did more. His Method may be said to have two parts: the one, that precise system of rules we have just quoted; the other, that wise and pre-eminently scientific spirit which breathes through his works. The latter is expressed in wise and weighty aphorisms which form perpetual texts for philosophic writers, and reveal the magnificence and profundity of his intellect. It is in these he shows how completely he saw through the false methods of his day, and how justily he is entitled the Father of Positive Science.

These aphorisms form, as we have said, perpetual texts. They are quoted on all occasions when Method is treated of. We cannot however resist quoting a half-dozen of them hore, because of their exceeding value, and of their fitness as illustrations of his greatures:—

- I. Man, the minister and interpreter of Nature, can act and understand in as for as he has, either in fact or as thought, observed the order of Nature; more he can neither know nor do.
- II. The real cause and root of almost all the crits in science is this: that, falsely magnifying and extalling the powers of the mind, we neek not its real helps.
- 111. There are two ways of searching after and discovering truth: the cur, from sense and particulars, rises directly to the most general axious, and resting upon these principles, and their unshaken truth, finds out intermediate axious, and this is the method in use; but the other rances axioms from sense and particulars by a continued and general axioms, which is the true way, but hitherto matried.
- IV. The understanding, when left to itself, takes the first of these ways; for the mind delights in springing up to the soot general axions, that it may find rest; but after a short stay there, it disdons experience, and these mischee's are at length increased by logic, for the estentiation of disputes.
 - V. The natural human reasoning we, for the sake of elearness,

346 E400S.

call the anticipation of nature, as being a rash and hasty thing; and the reason duly exercised upon objects, we call the interpretation of mature.

VI. It is false to assert that human sense is the measure of things, since all perceptions, both of sense and mind, are with relative to seen, and not with relation to the universe; * but the human understanding is like an unequal mirror to the rays of things, which, mirror its own nature with the nature of things, distorts and percents them.

We need only consider these half-force aphorisms to see the posifire tendency of his speculations; and the greater the attention we hostow on his writings, the more is this fart present on our notion. His mind was antiputhetic to all metrolesics. Neither the ingrandties of logicians, nor the passionnic carnestness of theologians, in that age of logicisms and theologisms, could have him from his path. 'He lived in an age,' says Mr. Macoulay, 'in which disputes on the most wibtle points of divinity excited in intense interest throughout Europe, and nowhere more than in England. He was placed in the very thick of the conflict. He was in power at the time of the Synod of Dort; and must for mouths have been shills deafened with talk about election, reprodution, and final perseverance; yet we do not remember a line in his works from which it can be inferred that he was either a Calvinist or an Arminian. While the world was resounding with the noise of a disputations theology and a disputations philosophy, the Baccaian School, like Albeorthyscated between Thwackum and Square, preserved a calm neutrality. half scornful, half benevolent, and, content with adding to the sum of practical good, left the war of words to those who liked it."

It may not at once be apparent how eminently scientific a spirit is shown in Bason's separation of Science from Theology; but a slight reflection will convince us that, at such an epoch, such a conception was wonderful. The persecution of Galileo by the Church, and his recontation, were fresh in every one's memory; they suffice to show that Beligion was still considered the arbiter of Philosophy and Science; nor is this notion yet extinct. The objections raised against the geologists still operate as a powerful obstacle to the universal acceptation of the science; and similar objections constantly

This is Dr. Since's translation. The original is 'even or analogis familial, non-ex-analogis universe,' which is intelligible and expressive enough, but difficult to render.

obstruct our scientific progress in other departments. This tendency is frequently deplored; perhaps it might be checked in some degree if it were shown to violate a fundamental canon of all sound philosophy, a canon which may be thus expressed; No speculation should be postrolled by an order of conceptions not executively arrangement by it. For example, every one feels the absurdity of controlling Poetry by Mathematics; because Portry in no souse presupposes Mathematies, and derives no assistance from them; but Physics can be controlled by Mathematics, because in Physics there is an essential dependence on Mathematics. We cannot control a chemical speenlation by any physiological laws; but conversely we can, and do, control physiological speculations by chemical laws. The canon, thus expounded, is readily applied to the old disputes between Boligion and Science. Theology belongs to a totally different order of conceptions from that of Science. Its aims are different, its methods are different, its proofs are different. Only in so far as Theology. comes into the circle of other sciences, can it be legitimately controlled by them; for instance, when Theology rosts any claims on historical evidence, then, and to that extent, must it be controlled by historical criticism; when it rests any claim on scientific evidence, then and to that extent, must it submit to scientific control; just as Poetry, if dealing at all with Mathematical problems, must do so encreetly, or submit to the criticism of nothenoticisms. But when the Church declares against Galileo; when the perhaps well-meaning but certainly nurse declaimers of the present day oppose Geology on theological grounds, the error is of the same nature as that of a post who should assail Mathematics on postical grounds. There can be no fair disputes between Theology and Science. Each pursies its own path; the one may push aside the other; they cannot argue, for they have no common ground. In Theology there may be disputes, as between Catholic and Protestant, Lutheran and Zuinglian, Presbyterian and Quaker, because all proceed from the same starting point, all invoke the some evidence; and in Science there may be disputes, as between Chemists, Geologists, and Physiologists, because, all employing the same methods, the same kind of evidence, there is common ground for them to fight on. But what a dissonance of words, expressive of no less dissonance in ideas, in the phroes Lutherna Botany and 'Prosbyterian Optics,' Catholic Chemistry' and ' Evangebral Anatomy'! Yet it is clear that if Theology is to interfere with and control the speculations of Seicarr, the various theological sects may also control it according to

\$48 RACOX.

their various views. We therefore see in Bacon's regorous separation of the two disparate paths of inquiry a profoundly philosophical tendency. He took another and far greater step when he emphatically proclaimed that Physics was "the mother of all the sciences." That this was greatly in advance of his age may be gathered from the fact of its to this day remaining a heresy; the notion of ethics and politics having the same methods, and being susceptible of the same treatment as physics, is by the nujority looked upon as fineiful, if not absurd.

Speaking of the causes of errors in preceding philosophers, Baron says, 'A accord cause of very great moment is that through all those ages wherein men of genius and learning principally or even moderately flourished, the smallest part of human industry has been spent upon natural philosophy, though this ought to be exteemed as the great mother of the sciences; for all the rest, if tora from this root, may perhaps be polished and formed for use, but can receive little increase.

'But let none expert any great promotion of the sciences, especially in their effective part, redux authoral philosophy for drawn and to particular sciences; and again, naless these particular sciences for foreight facts again to natural philosophy. From this defect it is that astronomy, optics, music, many mechanical arts, and what seems stranger, ones around and civil philosophy and logic, rise but little above their foundations, and only skim over the varieties and surfaces of things, viz. because after these particular sciences are formed and divided off, they are no longer nourished by natural philosophy, which might give them strongth and increase; and therefore no wonder if the sciences thrive not, when separated from their roots."

It was in consequence of his having so profoundly penetrated the very inture of science that Bacon was able "to by down the rules for the conduct of experimental inquiries, before any such inquiries had yet been instituted. The power and compass of a mind which could form such a plan beforehand, and trace not merely the emline, but many of the most minute ramifications of sciences which did not yet exist, must be an object of admiration to all succeeding ages."

In his separation of Science from Metaphysics and Theology, and in his conception of Physics as the mother of all the sciences, we

^{*} Norsen Orymum, i. Ayl. 79, 80.

see the eminently positive spirit of his works; and this makes him so entirely a modern. He was indeed thoroughly opposed to antiupity, and epigrammantically exposed the fallary of undue reverence. 'The opinion which men entertain of antiquity is a very idle thing,' said Le, 'and almost incongruous to the word; for the old-age and length of days of the world should in reality be accounted antiquity, and ought to be attributed to our own times, not to the youth of the world which it enjoyed among the ancients; for that age, though with respect to us it be ancient and greater, yet with regard to the world it was new and loss."

He bore testimous to the genins of several of the ancients, while to declared that their grains availed them nothing, became wrough employed; adding, in his usual hoppy style, 'a cripple in the right war may heat a meer in the wrong one. Nay, the feeter the meer is, who has once missed his war, the further he leaves it behind." 'We have an example,' he says, 'in Aristotle, who corrupted natural philosophy with Logic, . . . being all along more solicitous how men might defend themselves by mowers, and advance something that should be positive in mords, than to come at the inward trath of nature. . . . It is true his books of animals, problems, and other pieces, make frequent use of experiments; but then he first prononneed without their assistance, and slid and slady cossell experience in forwing his degrees and asions; but after he had passed judgment according to his own humour, he winds experience round, and lends her captive to his own opinions. . . . Another great reason of the slow progress of the sciences is this: that it is impossible to proceed well in a course where the end is not rightly fixed and defined. Now, the true and genuine end of the sciences is no other than to enrich human life with new inventions and new powers. ... Proits and discoveries of works are as the vouchers and serurities for the truth of philosophies. But from the philosophies of the Greeks, and their descents through particular sciences, now for the space of so many years scarce a single experiment can be produced tending to accommodate or improve the state of man, that may be justly attributed to the speculations and doctrines of their philosophy. . . . Therefore, since the end of the sciences has not

[•] It is a point of some interest to ascertain from whom Bacon got the aphorism be frequently quotes: 'Antiquity the youth of the world.' The bless is in Sensors, and is thus expressed by Reger Bacon. 'Quieste juniores tanto purposastores, quin juniores, posteriores ascertaines temporare, ingredunter labores priorum.'—Oyur Moyes, pare i. cap. 6, p. 2.

350 BLCOX.

hitherto been well defined by any one, we need not wonder if men have erred and undered in the things subservient to the proper end. Again, if this end had been rightly proposed, yet men here chosen a very serony and impassable way to proceed in. And it may strike any one with astonishment who duly considers it, that no mortal should hitherto have taken care to open and prepare a new for the busin understanding, from sense and a well-conducted experience: but that all things should be left either to the darkness of tradition, the gifdy agitation and whirlwind of argument, or else to the uncertain waves of accident, or a rague and uninformed experience. Let any one soberly consider what the way is which men have accustomed themselves to, in the inquiry and discovers of anything, and he will doubtless find that the manner of intention most commonly used as simple and unartful; or on no other than this, viz. when a person goes upon an impairy, in the first place he searches out and peruses what has been said upon it by others; in the next place adds his own thoughts thereto; and lastly, with great struggle of the mind, solicits and invokes, as it were, his own spirit to deliver him oracles; which is a method entirely destitute of foundation, and rolls wholly upon opinions. Others may call in the assistance of logic; but this is wholly a nominal assistance, for logic does not discover the principles and capital axioms upon which arts are built, but only such as seem agreeable thereto; and when men are curious and carnest with it, to procure proofs, and discover principles or first axioms, it refers them to faith, or puts them off with this trite and common answer-that every artist must believe in his som art."

Dugald Stewart* well says, 'that she idea of the abject of physical science (which may be justly regarded as the groundwork of Bacon's Norwas Organism) infliers essentially from what was entertained by the angients, according to whom "Philosophy is the science of rances." If indeed by conser they had meant merely the constant forerunners or antecedents of events, the definition would have coincided nearly with the statement which I have given. But it is evident that by cosses they meant such antecedents as were accountily connected with the effects, and from the knowledge of which the effects might be foreseen and demonstrated. And it was owing to this confusion of the proper objects of Physics and Meta-

^{*} In the excellent Chapter on Induction, Philips of Mond, vol. 6, ch. in. sect. 1.

physics that, neglecting the observation of facts exposed to the examination of their senses, they minly attempted, by synthetical reasoning, to deduce, as necessary consequences from their supposed causes, the phenomena and laws of nature."

Dugald Stewart also quotes Aristotle's express declaration that to know the physical cause is also to know the efficient cause; and observes, that from this disposition to confound efficient with physical causes may be traced the greater part of the theories recorded in the history of philosophy. It is this which has given rise to the attempts, both in ancient and modern times, to account for all the phenomena of moving bodies by impader; and it is this also which has suggested the simpler expedient of explaining them by the agency of sainds united with the particles of matter. To this last class of theories may also be referred the explanations of physical phenomena by such causes as sympathics, antiquthies, nature's horror of a vacuum, etc., and other phenoses borrowed by analogy from the attributes of animated beings.

It was Baron's constant endeavour, as it has been the cause of his enduring fame, to teach men the real object of Science, and the scape of their faculties, and to furnish them with a proper Method. whereon these faculties might be successfully employed. He thus not only stands clearly out in history as the exponent of the longagitated astagonism to all the ancient and scholastic thinkers, but also as the expenent of the rapidly increasing tendency towards positive science. He is essentially modern. All his predecessors, even in their bolilest attacks upon ancient philosophy, were themseives closely allied to the spirit of that which they opposed. Ramus is the child of Aristotle, though he mised his hand against his father. But Bacon was modern in culture, in object, and in method. He attacked the ancient philosophy without laving thoroughly understood it; he attacked it because he saw that a method which conducted great intelligeness to such abourd conclusions as those then in vogue must necessarily be false.

Whence can arise, he asks, such vaguences and sterility in all the physical systems, which have hitherto existed in the world? It is not certainly from anything in nature itself; for the steediness and regularity of the losse by which if is governed clearly mark them out as objects of precise and certain knowledge.

'Neither can it arise from any want of shility in those who have pursued such inquiries, many of whom have been men of the highest talent and gonins of the ages in which they lived; and it S12 BACOX

can therefore arise from nothing clae but the perversence and insufficiency of the methods which have been persons. Men have sought to make a world from their own conceptions, and to draw from their own minds all the materials which they employed; but if, instead of doing so, they had consulted experience and observation, they would have had facts, and not opinions, to reason about, and might have ultimately arrived at the knowledge of the laws which govern the material world.

'As things are at present conducted, a sudden transition is made from smallde objects and particular facts to general propositions, which are accounted principles, and round which, as round so many fixed poles, disputation and argument continually recolve. From the propositions thus lastily assumed, all things are derived by a process compositions and precipitate, ill suited to discovery, but wenderfully accommodated to delute.

'The way that promises success is the reverse of this. It requires that we should generalize shortly, going from particular things to those that are but one step over general, from those to others of still genetic extent, and so on to such as are unicersal. By such means we may hope to arrive at principles, not tague and obscure, but luminous and well-defined, such as Nature herself will not refuse to acknowledge.'

In this pregnant passage he has clearly enough pointed out the position which his philosophy was to occupy. 'Many other philosophers," as Professor Marrey Supier remarks, 'both meient and modern, had referred to observation and experiment in a current way, as famishing the materials of physical knowledge; but no one before him had attempted to appreciative the true method of diseasery; or to prove that the inductive is the only method by which the genoine office of philosophy can be exercised, and its gennine ends accomplished. It has sometimes been stated that Galileo was, at least, in an equal degree with Bacon, the father of the Inductive Logic; but it would be more correct to say that his discoveries funnished some fortunate illustrations of its principles, To explain these principles was no object of his; nor does he matefest any great associety to recommend their adoption with a view to the general improvement of science. The Aristotelian dispetant, in his celebrated Danksonz, is made frequently to appeal to observation and experiment, but the interlocutor, through whom Galileo himself speaks, nowhere takes occasion to distinguish between the Ilinsy inductions of the Staginte in regard to the objects

in dispute, and those which he himself had instituted, or to hint at the very different complexion which philosophy must assume, according as the one kind or the other is resorted to."

\$ IV. Was the Method New and Useful?

Bacon's Method, and the scientific spirit which animates his works, have been indicated in the foregoing pages. His platesophical importance is to be measured by that Method and that spirit; not by any accentific discoveries. A mind so richly stored could not fail to illustrate his writings with manifold graces of style, and with pregennt aphorisms. Accordingly, his Method having been established, and been superseded, having done its work pathing remains for our profit but these very graces and aphorisms. The great reformer may excite our admiration, historically; his Method estritus no almiration for its present intrinsic value. We have u more perfect Method; the processes of scientific investigation are better understood; but we are never in communion with his vast and penetrating intollect without acknowledging his greatness; for his remarks are often as applicable now as they were when first written. Hence the frequency of quotations from Bacon; and these quatations, as Dr. Whewell observes, are more frequently made by memphysical, ethical, and even theological writers, then they are by the authors of works on Physics. For the present pomeration, then, whatever the calm of Bacon's works, Bacon's Method is useless. Some modern writers have asserted that it was always useless; and this assertion has been supported by arguments so plausible, that they demand attention.

The objections made to Bacon's Method are of three kinds. Let.

It was nothing new; 2nd. It was useless as a guide to investigation;

Sed. It was already latent in the scientific spirit then abroad, and

must have been elicited by some one, somer or later.

'It was nothing new.' This is a very frequent objection, and is urged by the Count Joseph de Maistre and Mr. Macsulay. The former has written a long chapter to prove that Bacon's Induction is nothing more than the Induction of Aristotle; and Mr. Macanlay, who adopts the same opinion, devotes several sivucious pages to show that everybody unconsciously practises this inductive Method. M. de Maistre's Ecourus de la Philosophie de Bocov is a velument attack, written with the celebrated author's usual vivacity, but

2 4

On the Scope and Lythones of the Philips. Writings of Barow: Team, of the Boyal Society of Edinburgh, 1815.

354 BACON,

with more than his usual arrogance and velicuserse. As there are many things in Bacon hosty, inexact, or partaking of the prejudices and errors of his age, his antagonist is at no loss to find matter for ridicale; but when he treats of Bacon's Method and Sparit as contemptible purclities, he only excites a smile in the dispassionate render. His arguments against Bacon's Method are, first, that Aristotle had analyzed it before him; secondly, that Induction is only one form of the Syllogism.

It is true that Aristotle told us what Induction was; but it is not true that he mulyzed it, as Bucon has done; nor did he ever pursument it to be the Method of inquiry) on the contrary, it only served him as see of the means of ascertaining truth, and was not so important in his eyes as the Syllogism. Bacon asserts Induction to be the only Method; and has no words too strong to express his scorn of the Syllogism 'which may catch the assent, but lets the things slip through.' Dogsld Stewart observes that we might as well declare that the ancients had anticipated Newton because they too used the word 'attraction,' as that Aristotle asticipated Bacon because he too speaks of 'Induction.'* This is, however, going too for the other way. In our Chapter on the Stagirite we have sudicated the relation in which the two conceptions stand to each other.

M. de Maistre says that Induction and Syllogism are the same.

'At bottom, what is Induction? Aristotle clearly saw it: If is a syllogism without the middle term—čorn ži ž vasobro: σηλλογομώς τῆς πρώσης καὶ ἀμόσιο προσάσως. (dual. Prior. ii. 12.) What does it signify whether I say, Every simple being is indestructible by nature: now my soul is a simple being, therefore, etc.; or whether I say directly, My soul is simple, therefore it is indestructible. In either case it is the syllogism which is virtually in the induction, as it is in the enthymem.'

Now it is quite true that every induction may be thrown into the form of a syllogism by supplying the major premise; and it is this which led Archbishop Whately to conclude that Induction itself is but a psculiar case of ratiocination, and that the universal type of all reasoning is the syllogism. We cannot but agree with John Mill in holding precisely the reverse opinion, and believing that ratiocination itself is resolvable into Induction.) Be this as it may, M. de Maistre has affonded as an illustration of the difference between Aristotle and Baron in the very passage quoted.

[&]quot; Philos of Mond, vol. ii. ch. iv. sect. 2.

^{*} See System of Logic, vol. is pp. 372-3.

If every induction can be thrown into the form of a syllogism, by supplying the mojor premies, it is in the way this major premiss is established that we must seek the real difference between the Syllogistic and Inductive Methods, and that difference is the difference between a priori and a posteriori. Every one who has read Bacon knows that his scorn for the Syllogism is not scorn for it as a form of rediscinution, but as a means of inventigation. He objects to our proceeding to deduce from an axiom not accorately and inductively obtained, consequences which may very well be contained in the axiom, although having no relation to the truth of things. 'The axioms in use, being derived from slender experience and a few obvious particulars, are generally applied in a corresponding manner; no wonder they lead not to new particulars." Again: *Syllogism consists of propositions, propositions of words, and words are the signs of notions; therefore, if our autious, the hasis of all, are confused, and sver-hastily taken from things, pothing that is built upon them can be firm; selence our only lope rests spon gensiae Induction.'t

Nothing can be more explicit. Bacon very well knew the difference between his Method and that of the Aristotelians; and he very well expressed this difference. To turn round upon him and say all Induction is itself but Syllogism, is more existen. He was not giving a logical analysis of the mind; he was warning men against long-standing errors, and pointing out to them the path of truth.

Mr. Macanlay's arguments are of a different stamp. To us they are only ingenious and plausible; yet so ingenious and so plamible as to gain many followers. They are mostly true as far as they go, but do not appear to us to go to the real point. We shall select the main parts of his opposition :—

"The inductive method has been practised ever since the beginning of the world, by every human being. It is constantly practised by the most ignorant clows, who by this method is led to the conclusion, that if he sows barley he shall not reap wheat. A plain man finds his stomach out of order. He never heard of Lord Bacon's name. But he proceeds in the strictest conformity with the rules laid down in the second book of the Norwa Organia, and satisfies himself that minor-pies have done the mischief. "I ate minor-pies on Monday and Wednesday, and was kept awake by 356 ELCON.

indigestion all night." This is the componentia of intellectum intensitions corresponding. "I find not eat any on Tuesday and Feifley, and I was quite well." This is the componential indication of them on Sunday, and was very slightly indisposed in the evening. But on Christmas-day I almost dired on them, and was so ill that I was in some danger." This is the componentia industriess exceeding major of misss. "It cannot be the brandy which I took with them; for I have drunk brandy for years, without being the worse for it." This is the rejectiv autorouse. We night easily proceed, but we have already sufficiently explained our manning."

The answer to this is, that Inflaction being the process of all reasoning, of course so long as men have reasoned they laws reasoned inductively. But there is simple and incautious Induction, and there is cautious methodical Induction,—instinct and acience; in ordinary cases, men pursue the induction per cossucrationess simplicens; in scientific investigations they must pursue a very different method; and at the time Bacon wrote, almost all philosophical and scientific speculations were vitiated by the incorrect method.

'Those who object to the importance of Bacon's precepts in philosophy,' says Mr. Hallam, 'that mankind have practised many of them immemorially, are rather conferming their utility than taking off much from their originality, in any fair sense of the term. Every logical method is built on the common faculties of human nature, which have been exercised since the creation, in discerning-better or worse-truth from falsehood, and inferring the miknown from the known. That men might have done this more exrectly is manifest from the quantity of error into which, from want of reasoning well on what came before them, they have lubitually fallen. In experimental philosophy, to which the more special rules of Lord Bacon are generally referred, there was a notorious want of that very process of reasoning which he supplied.18 'Nothing can be more certain," as Professor Napier observes, "than that Bacon rests the whole hopes of his philosophy on the severy of his logical precepts; and that he uniformly represents the ancient plalosophers, particularly Aristotle, as having been wholly regardless of the inductive method in their physical inquiries. Baron does not indeed say that the ancient philosophers never employed them-

^{*} Hitt of Lit. of Europe, id. 182.

selves in observing Nature; but he maintains that there is a wide difference between observation, as it was employed by them, and the art of observing for the purposes of philosophical discovery."

Men in Bacon's time reasoned like the facetions judge in Mr. Macaulay's anecdote, 'who was in the habit of jocosely propounding, after dinner, a theory, that the cause of the prevalence of Jacobinsm was the practice of bearing three names. He quoted, on the one side, Charles James Fox, Richard Britsley Sheridan, John Horne Tooke, John Philpot Curran, Samuel Taylor Coleridge, Throbold Wolfe Tone. These were instantic convenienter. He then proceeded to eite instances obsertion in pravious-William Pitt, John Scott, William Wyndham, Satouel Horsley, Hessy Dandas, Educard Burke. He might have gone on to instances reconfess magis et minus. The peactice of giving children three names has been for some time a growing practice, and Jacobinism has also been growing. The practice of giving children three muses is more common in America than in England. In England we have still a King and a House of Lords; but the Americans are Republients. The rejections are obtions. Burke and Walfe Tone never both Irishmen; therefore the being an Irishman is not the cause. In this way our inductive philosopher arrives at what Bacon culls the matage, and pronounces that having three names is the cause of Jacobinistn.

This is a very good theory for a jocular one; but we are surprised to find so neute a writer as Mr. Macaulay speaking of it in the terms he does: 'Here is an induction corresponding with flacon's analysis, and ending in a monstrous absurdity. In what then does this induction differ from the induction which leads us to the conclusion that the presence of the sun is the cause of our having more light by day than by night? The difference evidently is, sot is the kind of instruces, but in the mouler of instruces; that is to say, the difference is not in that part of the process for which Bocon has given precise rules, but in a circumstance for which no precise rule can possibly be given. If the learned author of the theory about Jacobinism had enlarged either of the tables a little, his system would have been destroyed. The names of Tom Paine and William Windham Grensille would have been sufficient to do the work.'

We especially dissent from the clause printed in italies, which

Discretation on the Supe and Labourer of Recon's Whitings, p. 13. See also a pursue to the sums effect in Herschel's Discourse, pp. 123, 134, which we do not quote, because the work is in everybody a hards.

358 BACON.

seem to us at variance with all sound Induction. It is precisely the hisef of instances adduced in the theory, which makes the theory absurd. The whole theory is a gross example of "constition inforred from essual commiction, without any presumption arising from known properties of the supposed agent; which is the characteristic of emporicism.' Although in this theory there has been a certain superficial elimination employed, set that elimination is obtiously too incomplete for any satisfactory result. Mr. Macanlay subsequently asks. What number of instances is sufficient to justify belief? After low many experiments would Jenner have been justified in believing vaccination to be a safeguard against the smallpox? We answer that the acceder of instances depends on the dood of instances, and on the theory which presides over their collection. In proportion as the facts adduced are complex, must the theory which would explain them be consistent with all other known truths, before the facts themselves can have any significance.

Bacon's originality is in no way affected by proving that all seen at all times, when they reasoned correctly, reasoned inductively. Moreover, in Baron's particular department, men had notoriously pursued a wrong Method. They were not seese of the necessity, which he declared there was in all inventigations, to proceed upon a graduated and measures balanction. Bacon first made them aware of this; and, as Dr. Whewell says, 'the truly remarkable circumstance is to find this recommendation of a continuous advance from observation, by limited steps, through successive gradations of generality, given at a time when speculative men in general had only just begun to perceive that they must begin their resurse from experiences in some way or other. . . . In catching eight of this principle, and in ascribing to it its due importance, Baccer's segacity, so far as I am aware, wrought unassisted and unrivalled.'*

The second question now presents itself. Was the method meful as a guide in investigation? Many persons have declared it to be useless. Mr. Macaulity is of the same opinion. He says, with

^{*} And the in spite of the warning so complatically given three centuries before Francia Bloom, by his great namestic Regor Bloom: Since experiential wild inflicienter sein potent. Due come sunt mode componential milest per regumentum at experimentum. Argumentum concludit at facil no concludere quantitationers, and non certifican neglic removed distintioners, in quincul unities in intuita verificial, sini cass invented via experientia. —Open Mano, pare vi. cap. i.
† Philos. of Inductive Sciences, S. 200, 304.

great truth, 'By stimulating men to the discovery of new truth, Bacon stimulated them to employ the inductive method—the only method by which truth can be discovered. By stimulating men to the discovery of anglet truth, he farnished them with a motive to perform the inductive process well and carefully. His predecessors had been anticipators of Nature. They had been content with first principles, at which they had arrived by the most scanty and slovenly induction. And why was this? It was, we conceive, because their philosophy proposed to itself no practical end, because it was merely an exercise of the mind. A man who wants to contrive a new machine, or a new medicine, has a strong motive to observe patiently and accurately, and to try experiment after experiment; but a men who merely wants a theme for disputation, or declaration, has no such motive.'

Now in this passage, as it seems to us, the very morit we are chaining for Bacon is conceded. We are told that Bacon stimulated men to employ the Inductive Method-the only method by which new truth could be discovered. Who pointed out the fatility of anticipating Nature?-Bacon. Who exposed the acauty and slovenly induction' of the Schoolmen?-Bacon. His merit is not simply that of stimulating men to the discovery of new hards, but of also affording them climt and compass wherewith to discover the new lands. There were several eminent men, his predecessors and contemporaries, who all rose up against the ancient systems, and stimulated men to the discovery of useful troth; but these men, although all of them constantly insisted upon observation and experiment, had no glimpse, or only a very partial and confused glimpse, of the Industive Method. So that when Mr. Macanhay says, 'It was not by furnishing philosophers with rules for performing the industive process well, but by furnishing them with a metive for performing it well, that he conferred so yast a benefit on society," we believe he is contradicted, on all sides, by history, The sastive had been given by many-indeed, one may say that it was a tendency of the age; the rades had been devised by no one hat himself. These rules, it is true, were far from perfect; but they constitute the beginning, and form the basis of the more perfeet structure which successors have creeted. Mr. Macanlay's argument receives its force solely from what we cannot but regard as his misceneration of the Baconian Induction. That Induction bedeclares to be daily performed by every man; but this is confound. ing ordinary Induction, with scientific Induction. It is confounding

200 RACON

a simple inference, with a long and complicated process of inference. It is confounding what Bacon increamily and emphatically distinguishes, vir. Induction with the Inductive Method; and this confusion has probably influenced him in the selection of his illustrations. None of the things be has named require a complimited process of reasoning for their discovery. If a man wants to make a shoe, he needs inductions, but is certainly in no need of the Industive Method; if he wants to discover a law of Nature, that Inductive Method is indispensable. Mr. Macanlay will not maintain that the ordinary man, who wishes to find out a law of Nature, proceeds in his inquiry by a graduated unit successive Induction from particulars to generals, and from generals to those which are still more general; and this without 'anticipation' of Naturewithout rish and hasty leaping from one particular to some extreme generality. In fact, although Induction, as the type of reasoning, must be carried on by every reasoning animal, yet so far is the Inductive Method from being the ordinary process of ordinary men, that we know of searcely any process so confrary to the natural bias of the mind. Bacon has more than once allufed to this bias, which makes us judge hastily, and on the slenderest evidence. Indeed, the Inductive Method requires a constant and watchful repression of our natural tendency to 'anticipate,' and endeavour, by a short cut, to abridge the long former which conducts us to the Truth.

But while we think Mr. Manually underrates the importance of the inductive rules, we quite agree with him that Bocon overrated their importance. 'Our method of discovery in science,' so runs our of his aphorisms, 'is of such a nature that there is not much left to aenteness and strength of genius, but all degrees of genius and intellect are brought nearly to the same level." This is comtradicted by every two men engaging in scientific pursuits. In proportion to the effectiveness of the instrument, will the original superiority make itself more manifest. Place axes in the knots of two men commissioned to make a eleming in the forest, and the stronger man will be at a greater advantage than he was before. Morcover the Method, however excellent when followed, cannot force men to follow it: the natural bias of the mind is against it. Mr. Macialay therefore is perfectly right in perferring the spirit of Basser's Method to the rules given in the second book of the Orangum,

^{*} James Organia, J. Apr. 61.

There is however another reason why the spirit is preferable to the rules; and that groups is the incompleteness of those rules. The rulical defect of Bacon's method lies in its being inductive, and not also deductive. He was so deeply impressed with a sense of the insufficiency of the Deductive Method alone, which he saw his contemporaries pursuing, and which he knew to be the curse of the fulure of his producessors, that he bestowed all his attention on the Inductive Method. His want of mathematical knowledge. had also no small share in this error. Although bowever it may be justly said that he did not sufficiently exemplify the Deduction Method, it is not correct to say that he entirely neglected it. Those who assert this, forget that the second part of the Norsess Organica was moved completed. In the second part it was his intention to treat of Deduction, as is plain from the following passage: 'The indications for the interpretation of Nature include twogeneral parts. The first relates to the mising of Axious from experience; and the second, to the deducing or deriving of acte experissente from Arisme (de durendis nut derivandis experimentis novis ab axiomatibus). ** We here see that he comprehended the twofold nature of the method; but impumels as he did not publish the second part of his Organess, we may admit the remark of Professor Playfair, that 'in a very extensive department of physical science, it current be doubted that investigation has been carried on, not perhaps more easily, but with a less frequent aspeal to experience, than the rules of the Norms Organics would seem to require. In all. physical impairies where mathematical reasoning has been employed, after a few principles have been established by experience, a vast multitude of truths, equally certain with the principles themselves. have been deduced from them by the mere application of geometry and algebra. . . . The strict method of Bacco is therefore order posessary where the thing to be explained is new, and where we have no knowledge, or next to none, of the porous employed. 't

His deficiency in mathematical knowledge caused him to overlook the equal importance of Deduction and Induction:— Baconhas judiciously remarked, that the assistants are dist of every science principally constitute its value. The lowest generalizations, until explained by and resulted into the middle principles, of which they are the creasopurness, have only the imporfice accuracy of empirical laws; while the most general laws are too general, and include too 362 BACON.

few circumstances to give sufficient imlication of what happens in individual cases, where the circumstances are almost always immembely numerous. In the importance therefore which Bucon assigns, in every science, to the middle principles, it is impossible not to agree with him. But I consume him to have been radically wrong in his doctrine respecting the mode in which these arismafa media should be arrived at; although there is no our proposition in his works for which he has been so extravagantly calogized. eminerates, as a universal rule, that influction should proceed from the lowest to the middle principles, and from the those to the highest, never reversing that order, and consequently leaving no room for the discovery of new principles by way of deduction at all. It is not to be conceived that a man of Bacon's segucity could have fallen into this mistake, if there had existed in his time, among the sciences which treat of successive phenoneers, one single deductive science, such as mechanics, astronomy, outies, accostics, etc., new are. In those sciences, it is evident that the higher and middle principles are by no means derived from the lowest, but the reverse, In some of them, the very highest generalizations were those earliest ascertained with any scientific exactness; no, for example (in mechanics), the laws of motion. Those general laws had not indeed at first the acknowledged universality which they acquired after having been encessfully comfored to explain many classes of pienomena to which they were not originally seen to be mydicable; as when the laws of motion were employed in conjunction with other laws to explain deductisely the celestial phenomena. Still the fact remains, that the propositions which were afterwards recognised as the most general truths of the science, were, of all its accurate generalizations, those earliest arrived at.

Bacon's greatest ment therefore cannot consist, as we are so often told that it did, in exploding the vicious method pursued by the ancients, of figure to the highest generalizations for it, and deducing the middle principles from them, since this is neither a vicious nor an exploded method, but the universally accredited method of modern science, and that to which it owns its greatest triumphs. The error of ancient speculation did not consist in making the largest generalizations first, but in making them without the aid or warrant of rigorous inductive methods, and applying them deductively without the needful use of that important part of the deductive method termed verification."

^{*} Mill's System of Logic, ii 524-6.

This passage certainly lays have the weakness of Bacon's Method; and does so, we believe, for the first time. But we cannot entirely concur in the concluding paragraph. Although Bacon did not perhaps see the real importance of the Deductive Method, he did see the futility of the Deductive Method employed before his time; and he saw moreover that the cause lay in the want of 'verification'—in the want of 'the sid or warrant of rigorous inductive methods.' this we must think his greatest merit, as we think his imperfect conception of the Deductive Method his greatest imperfection.

There is also another potent reason why the merely Inductive Method should not have contributed to any great discoveries; and we must again become from the System of Logic the passage wherein this is exhibited:—

'It has excited the surprise of philosophers that the detailed system of inductive logic has been turned to so little direct use by subsequent inquirers.—having unither continued, except in a few of its generalities, to be recognized as a theory, nor larving conducted, in practice, to any great scientific results. But this, though not unfrequently remarked, has scarcely received any plansible explanation; and some indeed have perferred to assert that all rules of induction are useless, rather than suppose that Bacon's rules are grounded upon an insufficient analysis of the inductive process, Such however will be seen to be the fact, as soon as it is considered that Bacon entirely overlooked plurality of causes. All his rules facilly imply the assumption, so contrary to all we know of Nature, that a phenomenon cannot have more than one cause."

In another passage, too long for extract, the same author points out a capital error in Bacon's view of the inductive philosophy, viz. his supposition that the principle of elimination—that great logical instrument which he had the immense merit of first bringing into use—was applicable in the same sense, and in the same unqualified manner, to the investigation of co-environces, as to that of the sercession of phenomena.)

In conclusion, it may be said that Bacon's conception of a scientific Method was magnificent, as far as it went; but in consequence of certain deficiencies, owing principally to the want of any established science as a model, the Method he laid down was only is directly useful. If it did not produce great discoveries, it certainly did exercise as important influence on the minds of those who were

364 sacon,

afterwards to make great discoveries. "The way to prove that Bacon's writings were powerful agents in the advancement of physical knowledge," says Professor Napier, 'is to prove that they produced these effects (viz. the overthrow of existing methods—stimulus given to experimental inquiry—and ingenious views and principles requisite for such inquiry); and the proof that such effects were actually produced by them, must reconstrily be derived from the testimony of those who early experienced, or became otherwise acquainted with, their operation.' And the greater part of his instructive Essay is devoted to this proof. The proofs are numerous such decisive, gathered not only from the English and French writers, but also from Italian and German.

And now the last question presents itself, Was not Bacon's Method latent in the scientific spirit of the age? Yes; just as much as the invention of the steam-ragine was latent in the knowledge and tendences of the age of Watt. What does invention mean more than the finding what others are still seeking? were it not hidden somewhere, no one could find it. Let no one therefore endenouse to rob a great man of his fame by declaring that the thing found was lying ready to be found, and would have somer or later been found by some one. Yes, by some one who had eyes to see what his fellow-men could not see: by some other great man. How was it that Bacon's immediate predecessors and contemporaries did not detect this latent method? It was lying there as open for impection to them as to him. Why did he alone find it! Because he alone was competent to find it.

It is very true that in his day, and previously, great discourries had been made; and as they only could be made upon a true Method, the Method was implied in them. But this is no argument against Bacom's originality. 'Principles of cridence,' says Mr. Mill, 'and theories of method, are not to be constructed a priori. The laws of our rational faculty, like those of every other natural agency, are only learnt by seeing the agent at work. The earlier achievements of science were made without the conscious observance of any scientific method; and we should never have known by what process truth is to be ascertained if we had not previously ascertained truths.' And if we consider for a moment the extreme paneity of ascertained truths in science at the time Bacon wrote, it will enhance our admiration of his marvellous againty, to see him do so much with such poor materials; as Playfair says, 'the history of human knowledge points out holody of whom it can be said

that, placed in the situation of Bacon, he would have done what Bacon did,—no man whose prophetic genius would enable him to delinente a system of science which had not yet begun to exist."

Bacon is a great subject, and one as uttractive as great; but our object here has been solely to exhibit his Method, and to indicate its historical position. We have done nothing but point out the grounds upon which his fame, as the father of Experimental Philosophy, is built. His Method alone engaged us, because by it alone he claims a place in this history. We have not dwelt upon his errors; neither have we dwelt upon the wondrons and manifold excellences of that mind which Mr. Macoulay has so felicitously compared to the tent the fairy Perihanou gave to Prince Aloned:—

Fold it, and it seemed the toy for the hand of indy: spread it, and the armies of powerful Sultans might repose beneath its slanks.

SECOND EPOCH.

FOUNDATION OF THE DEDUCTIVE METHOD.

CHAPTER I.

DESCARTES.

\$ L. Lave or Descarres.

JUST at the close of the sixteenth century, 1396, there was been in Toursine, of Breton parents, a feeble sickly child, named René Descartes Deperson. A few days after his birth, a disease of the longs carried off his mother. The sickly child gree to be a sickly boy; and, till the age of twenty, his life was always despaired of.

That boy was one the world could ill afferd to lose. Few who saw him creeping on the path, which his companions galloped along like young colts, would have supposed that the boy, whose sheet dry cough and paleness scentral to announce an early grave, was shortly to become one of the world's illustrious leaders whose works would continue, conturies after their appearance, to be studied, quoted, and criticized. His masters leved him. He was a pupil of promise; and in his eighth year had gained the title of the Young Philosopher, from his avidity to learn, and his constant questioning.

His education was confided to the Jesuits. This astonishing body has many cytle laid to its door, but no one can refuse to it the praise of having been ever ready to see and apply the value of education. In the college of La Flèche the young Descartes was instructed in mathematics, physics, logic, rhetoric, and the ancient languages. He was an apt pupil; learned quickly, and was never tired of learning.

Was the food supplied by the Jesuita nutritions? M. Thomas remarks, There is an education for the ordinary man; for the man of genous there is no education but what he gives himself; the second generally consists in destroying the first.' And so it was with Descartes, who, on leaving La Flèche, declared that he had derived no other benefit from his studies than that of a conviction of his after ignorance, and a profound contempt for the systems of philosophy in vogue. 'The incompetence of philosophers to solve the problems they occupied themselves with,—the anarchy which reigned in the scientific world, where no two thinkers could agree upon fundamental points,—the extravagance of the conclusions to which some accepted premisses led, determined him to seek no more to slake his thirst at their formations.

And that is why, as soon as my age permitted me to quit my preceptors, he says, 'I entirely gave up the study of letters; and resolving to seek no other science than that which I could find in myself, or else in the great book of the world, I employed the remainter of my youth in travel, in seeing courts and camps, in frequenting people of diverse humours and conditions, in collecting various experiences, and above all in endeavouring to draw some profitable reflection from what I saw. For it seemed to me that I should most with more truth in the reasonings which each man makes in his own affairs, and which if wrong would be speedily punished by failure, than in those reasonings which the philosopher makes in his study, upon speculations which produce no effect, and which are of no consequence to him, except perhaps that he will be more vain of them the more remote they are from common sense, because he would then have been forced to employ more ingenuity and subtlety to render them plausible."

For many years he led a roxing masettled life; now serving in the army, now making a tour; now studying mathematics in solitude, now conversing with scientific men. One constant purpose gave unity to those various parsuits. He was elaborating his answers to the questions which peoplexed him; he was preparing his Method.

When only three-and-twenty be conceived the design of a reformation in philosophy. He was at that time residing in his winter quarters at Neuburg, on the Danube. His travels soon afterwards commenced, and at the age of thirty-three he retired into Holland, there in silence and solitude to arrange his thoughts into a consistent whole. He remained there eight years; and so completely

Discours de la Méthode, p. 6 of the convenient edition of M. Jules Sanon. Paris, 1844.

did he shut himself from the world, that he concealed from his friends the very place of his residence.

When the results of this meditative solitude near given to the world, in the shape of his eclobrated Discourse on Method, and his Meditations (to which be invented replies), the sensation produced was immense. It was evident to all men that an original and powerful thinker had arison; and although of course this originality. rould not but pome much opposition, from the very fact of being original, yet Descurses gained the day. His turns became European. His controversies were European quarrels. Charles I. of England invited him over, with the promise of a liberal appointment; and the invitation would probably have been accepted, had not the civil war broken out. He afterwards received a flattering invitation from Christina of Sweden, who had read some of his works with great satisfaction, and wished to learn from himself the principles of his philosophy. He accepted it, and arrived in Stockholm in 1649. His reception was most gratifying, and the Queen was so pleased with him as cornestly to beg him to remain with her, and give his assistance towards the establishment of an academy of sciences. But the delicate frame of Descartes was all fitted for the severity of the climate, and a cold, caught in one of his morning visits to Christian, produced inflammation of the lungs, which put an end to his existence. Christina wept for him, had him interred in the cemetery for foreigners, and placed a long culogium upon his tomb. His remains were subsequently (1696) carried from Sweden into Prance, and buried with great coremons in St. Generière du Mont

Descartes was a great thinker; but having said this we have almost exhausted the peaker we can bestow upon him as a min. In disposition he was timed to servidity. When promulgating his proofs of the existence of the Deity, he was in evident alarm lest the Church should see something objectionable in them. He had also written an astronomical treatise; but hearing of the fate of Galileo, he referined from publishing, and always used some choose in speaking of the world's movement. He was not a brave mus; nor was he in affectionate man. But he was even-tempered, placid, and studious not to give offence. In these, as in so many other points, he resembles his illustrious rival, Francis Bacon; but his name has descended darkened with more spots than time can afface. It would be hard to say how much difference of position had to do with this

difference of moral purity. Had Bacon lived in his study, we should have only praises for his name.

\$ H. THE METHOD OF DESCRIPES.

There have been disputes as to Bacon's claim to the title of Father of Experimental Science; but no one disputes the claim of Descartes to the title of Father of Modern Philosophy. Outology and Psychology are still pursued upon his Method; and his speculations are still pecually referred to, by most Continental thinkers, as perfect, or almost perfect, examples of that Method.

In his Dedication of the Medications to the Sectionse, he says:—
I have always thought that the two questions, of the existence of God, and the nature of the soul, were the chief of those which neight to be demonstrated rather by philosophy than by theology; for although it is sufficient for us, the faithful, to before in God, and that the soul does not perials with the body, it certainly does not seem possible ever to persuade the infidels to any religion, nor hardly to any moral virtue, unless we first prove to them these two things by natural reason.' Extraordinary language, which shows how completely Philosophy had gained complete independence.

But if Philosophy is to be independent,—if Keason is to walk alone, in what direction must she walk? Having relinquished the aid of the Church, there were but two courses open; the one, to trend once more in the path of the ancients, and to endeavour by the ancient Methods to actain the truth; or else to open a new path, to invent a new Method. The former van barely possible. The spirit of the age was deeply imburd with a feeling of opposition against the ancient Methods; and Descartes himself had been painfully peoplexed by the universal anarchy and uncertainty which prevailed. The second course was therefore chosen.

Uncertainty was the disease of the epoch. Scepticism was widespread, and even the most confident degreation could offer no eriterium of certitude. This want of a criterium we saw leading, in Greece, to Scepticism, Epicarcanism, Stoicism, the New Arademy, and finally leading the Alexandrians into the province of faith, to escape from the dilemma. The question of a criterium had long been the vital question of philosophy. Descartes could get no answer to it from the doctors of his day. Unable to find firm ground in any of the prevalent systems; distracted by doubts; mistrasting the conclusions of his own understanding; mistrusting the evidences of his senses, he determined to make a tabula rana, and reconstruct his knowledge. He resolved to examine the premisses of every conclusion, and to believe nothing but upon the clearest evidence of remon; evidence so convincing, that he could not by any effort refuse to assent to it.

He has given us the detailed history of his doubts. He has told us how he found that he could plausibly enough doubt of everything, except of his own existence. He pushed his scepticism to the verge of self-annihilation. There he stopped: there, in Self, in his Consciousness, he found at last an irresistible Fact, an irreversible Certainty.

Firm ground was discovered. He could doubt the existence of the external world, and treat it as a plantasm; he could doubt the existence of God, and treat the belief as a superstition; but of the existence of his thinking, doubting mind, no sort of doubt was possible. He, the doubter, existed, if nothing else existed. The existence that was revealed in his own Consciousness was the primary Fact, the first indubitable certainty. Hence his famous Copito, ergs Saw/ I think, therefore I am.

It is somewhat curious, and, as an illustration of the frivolous verbal disputes of philosophers, not a little instructive, that this celebrated Copils, ergo Suu should have been frequently attacked for its logical imperfection. It has been objected, from Gassendi downwards, that to say, 'I think, therefore I am,' is a begging of the question, since existence has to be proved identical with thought. Certainly, if Descartes had intended to prove his own existence by reasoning, he would have been guilty of the petitio privripal Gassendi attributes to him; viz. that the major premisa, 'that which thinks exists," is assumed, not proved. But he did not intend this. What was his object? He has told as that it was to find a startingpoint from which to reason,-to find an irreversible certainty. And where did he find this? In his own Consciousness. Doubt as I may, I cannot doubt of my own existence, because my very doubt reveals to me a something which doubts. You may call this as assumption, if you will: I point out the fact as one above and beyoul all logic; which logic can neither prove nor disgrove; but which most always remain an irreversible certainty, and as such a fitting besis of philosophy."

I exist. No doubt can darken such a truth | no soulism can

See his replace to the third and liftle series of Objections, affixed to his Meditations.

confute this clear principle. This is a certainty, if there be more other. This is the basis of all science. It is in tain to ask for a proof of that which is self-evident and irresistible. I exist. The concessors of my existence is to me the assurance of my existence.

Had Descartes done no more than point out this fact, he would have no riain to notice lare; and we are surprised to find many writers looking upon this Cogito, ergo Suu, as constituting the great idea in his system. Surely it is only a statement of universal experience—an epigrammatic form given to the common-sense view of the matter. Any clown would have told him that the assurance of his existence was his consciousness of it; but the clown would not have stated it so well. He would have said: I know I exist, because I feel that I exist.

Descartes therefore made no discovery in pointing out this fact as an irresistible certainty. The part it plays in his system is only that of a starting-point. It makes Conciousness the basis of all truth; there is none other possible. Interrogate Consciousness, and its clear replies will be Science. Here we have a new basis and a new philosophy introduced. It was indeed but another shape of the old formula. 'Know thyself,' so differently interpreted by Thales, Socrates, and the Alexandrians; but it gave that formula a precise signification, a thing it had before always wanted. Of little use could it be to tell man to know himself? By looking iswards? We all do that. By examining the nature of his thoughts? That had been done without success. By examining the process of his thoughts? That too had been accomplished, and the logic of Aristotle was the result.

The formula needed a precise interpretation; and that interpretation Descartes gave. Consciousness, said he, is the basis of all knowledge; it is the only ground of absolute certainty. Whatever it distinctly proclaims must be true. The process, then, is simple: examine your Consciousness, and its clear replies. Hence the vital portion of his system lies in this axiom, all clear ideas are true: whatever is clearly and distinctly conceived is true. This axiom he calls the foundation of all science, the rule and measure of truth.*

The next step to be taken was to determine the rules for the

^{*} Hite igitat detectà rezitate ainul enire inversi aminis seccitarium fundamentum: se cursa emissas aliarum veritatum nemaram, se regulam; sellect, quicqued tam cure se distincté percipiur quan istad veron est.'— Peincip. Phil. p. 4.

proper detection of these ideas; and these rules he has his down as follows:---

- Never to accept anything as true, but what is suiteably so; to admit sorting but what so clearly and distinctly presents itself as true that there can be no reason to doubt it.
- II. To divide every question into us many separate questions as possible; that each part being more easily conceived, the whole may be more intelligible,—(Analysis.)
- III. To conduct the examination with order, beginning by that of objects the most simple, and therefore the cusiest to be known, and ascending little by little up to knowledge of the most complex. — (Synthesis.)
- IV. To make such exact calculations, and such circumspections, as to be confident that nothing assential has been emitted.

Consciousness being the ground of all certainty, everything of which you are clearly and distinctly conscious must be true; everything which you clearly and distinctly conceive exists, if the idea of it involves existence.

In the four rules, and in this view of Cousciousness, we have only half of Descartes' system: the psychological half. It was owing, we believe, to the exclusive consideration of this half that Dugald Stewart was led (in controverting Condorcet's assertion that Descartes had done more than either Galileo or Bacon towards experimental philosophy) to say that Condorcet would have been nearer the truth if he had pointed him out as the Father of the Experimental Philosophy of the Mind. Perhaps the title is just; but Condorcet's praise, though exaggerated, was not without good formulation.

There is, in truth, another half of Descartes' system; equally important, or nearly so: we mean the Mathematical or Dedictive Method. His eminence as a mathematician is universally recognized. He was the first to make the grand discovery of the mylication of Algebra to Geometry; and he made this at the age of twenty-there. The discovery that geometrical curves might be expressed by algebraical numbers, though highly important in the history of mathematics, only interests us here by leading us to truce his philosophical development. We see him deeply impressed in mathematics; we see him awakening to the conviction that mathematics were capable of a still further simplification, and of a far more extended application. Struck as he was with the certitude of mathematical reasoning, he began applying the principles of

mathematical reasoning to the subject of metaphysics. His great object was, amidst the scepticism and anarchy of his contempoturies, to found a system which should be solid and convincing. He first wished to find a basis of certitude—a starting-point; this he found in Consciousness. He next wished to find a method of certitude; this he found in mathematics.

"Those long chains of reasoning," he tells us, "all simple and easy, which geometers use to arrive at their most difficult demonstrations, suggested to me that all things which come within lemma knowledge must follow each other in a similar chain; and that provided we obstain from admitting anything as true which is not so, and that we always preserve in them the order necessary to deduce one from the other, there can be none so remote to which we cannot finally attain, nor so obscure but that we may discover them." From these glimpses of the twofold nature of Descartes' Mothod, it will be easy to see into his whole system. The psychological and mathematical Methods are inseparable, Consciousness being the only ground of certitude, mathematics the only method of certitude.

We may say therefore that the Dednetive Method was now completely constituted. The whole operation of philosophy benceforth consisted in deducing consequences. The premises had been found; the conclusions alone were wanting. This was held to be true of physics no less than of psychology. Thus, in his Principle, he announces his intention of giving a short account of the principal phenomena of the world, not that he may use them as reasons to prove anything; for he adds, "we desire to dedice effects from causer, and causer frame effects, but only in order that out of the innumerable effects which we learn to be capable of resulting from the same causes, we may determine our minds to consider some rather than others."

Such being the Method of Descurtes, our readers will hear with surprise that some French writers have declared it to be the same

^{*} Discourse de la Mithale, p. 12.

^{**}Principle Philos pure iii. p. 51. The phrase, "empirem sum retiones effections à quasie, non auteur è contrario conserum ab effectibus deduces," may be suid to express the nature of his method, as opposed to the method of Baron. When M. Jules Simon and, "The commencement of philosophy for Dracaron in Doube, that alone is all his entire method—cefe and of feature Mithade" (Introduction prefaced to his edition of Descertes, p. 3), he missakes, as it seems to us, the whole purpose of Descertes' striffcial sceptions: busides, how can a Doubt be a Method?

Method as that Isid down by Bacon; and this surprise will be beightened on learning that M. Victor Cousin is one of those writers. He says, 'Let us now see what our Descartes has four, He has established in France the same Method that England has endeavoured to attribute exclusively to Bacon; and he has established it with less grandeur of imagination in style, but with the superior precision which must always characterize one who, not content with laying down rules, puts them himself in practice, and gives the example with the precept.'* M. Comin then quotes the four rules we quoted from Descartes; and seeing in them Analysis and Synthesis, which he believes constitutes the sole Method of Bacon, declares that the two Methods are one. Such a statement requires no refutation; nor indeed would it have been noticed, did it not afford an illustration of the loose way in which the term Method is employed by many writers.

Bacon was the reverse side of the medal of Descartes. Bacon's deficiencies by in that department where Descartes was greatest—in mathematics. Hence Bacon's over-radiation of Induction, and neglect of Deduction; hence also Descartes' over-valuation of Deduction, and neglect of Induction. Both cultivated Physics; but Bacon made it the basis of all the sciences; Descartes made it a mere illustration of his principles. The one argued from effects to causes—from the known to the unknown; the other deduced effects from causes—explaining phenomena by nonneum—explaining that which presented itself to the senses by that which was intuitively known. Both separated religion from philosophy; but Bacon declared the problems of religion and ontology incoluble by reason, and therefore beyond the province of science; Descartes declared them soluble only by reason, and that it was the first object of philosophy to solve them.

Besides these and other points of difference, there were also several points of resemblance, owing to the resemblance of their positions as reformers. They both overvalued their Methods, which they declare will enable all men to philosophize with equal justness. 'It is not so essential to have a fine understanding,' says Descartes, 'as to apply it rightly. Those who walk slowly make greater progress, if they always follow the right road, than those who run swiftly, but run on a wrong one.' This is precisely the thought of Bacon; 'A empto in the right path will beat a recer-

^{*} Hist. de la Phit, leon in p. 01, ed. Brunelles, 1840.

in the wrong one.' But both these thinkers assume that the racer will choose the wrong path: whereas, if their Methods are adopted, the finer understanding most always surpass the duller in the discovery of truth.

Before quitting this subject, we must remark on the essentially metaphysical nature and tendency of the Method of Descartes, even when employed on Physics; and for this purpose we cannot do better than borrow the admirable language of Fontenelle in his parallel beturen Descartes and Newton. Tous deux géomètres excellents out su la nécessité de transporter la géométrie dans la physique . . . Mais l'un, premnet un rel hardi, a voulu se placer à la source de tout, se rendre maître des permiers principes par quelques ifiées claires et fondamentales, pour n'avoir plus qu'à descendre aux phénomènes de la nature comme à des conséquences nécessaires; l'autre, plus timide ou plus modeste, a commencé sa marche par s'appayer our les phénomènes pour remonter aux principes incumus, résolu de les admettre, quels que les pût donner l'enchaînesment des conséquences. L'un part de ce qu'il entend nettement pour innurer la cause de ce au'il voit ; l'autre part de ce qu'il voit pour en trouver la cause, soit claire, soit-obscure."

\$ 111. APPLICATION OF THE METHOD.

To prove the existence of God was the first application of Descartes' Method; not, as some say, to prove his own existence; for that neither admitted of logical proof nor of disproof: it was a primary fact.

Interrogating his Consciousness, he found that he had the idea of God, understanding, by God, a substance infinite, eternal, immutable, independent, omniscient, omnipotent. This, to him, was as certain a truth as the truth of his own existence. I exist: not only do I exist, but exist as a miserably imperfect, finite being, subject to change—greatly ignorant, and incapable of creating mything. In this, my Consciousness, I find he my finitude that I am not the All; by my imperfection, that I am not perfect. Yet an infinite and perfect being most exist, because infinity and perfection are implied, as correlations, in my isless of imperfection and finitude. God therefore exists: his existence is clearly proclaimed in my Consciousness, and can no more be a matter of doubt, when fairly considered, than my own existence. The conception of an infinite being proves his real existence; for if there

is not really such a being, I must have made the conception; but if I could make it, I can also unmake it, which evidently is not true; therefore there must be, externally to myself, an unchatype from which the conception was derived.

The ambiguity in this case," it has been remarked," is the pronoun I, by which in one place is to be understood my will, in unother the town of my sature. If the conception, existing as it does in my mind, had no original without, the conclusion would magnetionally follow that I had made it—that is, the laws of my nature must have spontaneously evolved it; but that my will made it would not follow. Now, when Descartes afterwards adds that I cannot unmake the conception, he means that I cannot get rid of it by an act of my will, which is true, but is not the proposition required. That what some of the laws of my nature have produced, other laws, or the same laws in other streamstraces, might not subsequently efface, he would have found it difficult to establish."

His second demonstration is the weakest of the three. Indeed, it is the only one not irrefragable, upon his practiples. The third demonstration is possiblely Cartesian, and may be thrown into this syllogism:—

All that we clearly and distinctly concrise as contained in anything, is true of that thing.

Now we conceive, clearly and distinctly, that the existence of God is contained in the idea we have of him.

Ergo, God exists.

Having demonstrated the existence of God, he had to prove the distinction between body and soul. This, to him, was easy. The fundamental attribute of Substance must be extension, because we can abstract from Substance all the qualities except extension. The fundamental attribute of Mind is thought, because by this attribute Mind is rerealed to itself. Now, according to our of his logical axioms, two substances are really distinct when their ideas are complete, and in no way imply each other. The ideas, therefore, of extension and thought being distinct, it follows that Substance and Mind are distinct in essence.

We need not pursue our analysis of his metaphysical notions further. We only stop to remark on the authors of his demonstrations of God and the soul. It is, and was, usual to prove the exist-

^{*} Mill's System of Logic, ii. 447.

rare of God from what is called the 'evidence of design,' Descartes neither started from design, nor from motion, which must have a mover: he started from the a priory ideas of perfection and infinity; his proof was in the elegeness of his idea of God. His Method was that of definition and deduction. To define the idea of God, and hence to construct the world—not to contemplate the world, and thence infer the existence of God—was the route he pursued. Is it not eminently the procedure of a mathematicism? and of a mathematicism who has taken Consciousness as his starting-point?

Descrites' speculations are beautiful exemplifications of his Method; and he follows that Method, even when it leads him to the wildrest conclusions. His physical speculations are sometimes admirable (he made important discoveries in optics), but mostly functiful. The famous theory of vortices deserves a mention here, as an example of his Method.

He begins by banishing the notion of a recuesa, not, as his contemporaries said, because Nature has a borror of vacuum, but beranse, the essence of Substance being estension, wherever there is catersion there is Substance, consequently empty space is a chimera. The substance which fills all space must be assumed as divided into equal angular parts. Why most this be assumed?-Because it is the most simple, therefore the most entural supposition. This substance being set in motion, the parts are ground into a substicul form; and the corners thus rubbed off, like filings or sawdast, form a second and more subtle kind of substance. There is, besides, a kind of substance, coarser and less fitted for motion. The first kind makes luminous hodies, such as the sun and fixed stars; the second makes the transparent substance of the skies; the third land is the material of opaque bulies, such as earth, planets, etc. We may also assume that the motions of these parts take the form of revolving circular corrents, or syrfices. By this means the matter will be collected to the centre of each vortex, while the second or subtle matter surrounds it, and by its centrifugal effect constitutes light. The planets are carried round the sun by the motion of this vortex, each planet being at such a distance from the sun as to be in a part of the vortex suitable to its solidity and mobility. The motions are prevented from being exactly circular and regular by rarious causes. For instance, a vortex may be pressed into an oral shape by contiguous vortices."

[.] We have followed Dr. Whewell's experition of this theory, as given by

Descartes, in his physics, adopted a method which permitted him to set uside the yestifies and the substantial forms (which others were socking), and to consider only the relations of number, figure, and motion. In a word, he saw in physics only mathematical problems. This was premature. Science, in its infinery, cannot be carried on by the deductive Method alone; such a process is reserved for its materity.

But this deductive Method, though premature, was paissant. Science is forced to simpley it, and Bacon's greatest error was in not sufficiently acknowledging it. Hence we may partly account for the curious fact that Bacon, with his cautious Method, made no disorveries, while Descartes, with his premature Method, made important discoveries. Of course the greater physical knowledge of Descartes, and the greater attention bestowed by him upon physics, had something to do with this; but his Method also assisted him, precisely because his discoveries were of a kind to which the mathematical method was strictly applicable.

That Descurtes had read Bacon there is no doubt. He has himself prinsed Bacon's works as leaving nothing to be desired on the subject of experience; but he perceived Bacon's deficiency, and declared that we are 'liable to collect many superflasse experiences of particulars, and not only superfluous but false,' if we have not ascertained the truth before we make those experiences. In other words, experiment should be the perification of an it priori conception; whereas Bacon teaches us to form our conceptions from experiment.

We have said enough to make the Method of Descurtes appreciable. His position is that of founder of the Deshetive Method on the basis of Consciousness. His scholars may be divided into the mathematical cultivators of Physica, and the deductive cultivators of Philosophy. By the first he was speedily surpassed, and his influence on them can only be regarded as an impulsion. By the second he was confinence, his principles were unhestatingly accepted, and only developed in a somewhat different manner.

His philosophical Method subsists in the present day. It is the Method implicitly or explicitly adopted by most metaphysicians in their speculations upon entological subjects. Is it a good Method?

him, Hist, of Ind. Science, it p. 134. The curious reader will do well have even to man to Descartes' own exposmen in the Principle Philosophia, where a is illustrated by diagrams.

The question is of the highest importance; we will endeavour to answer it.

§ IV. Is THE METHOD THEE?

In the Dedicatory Epistle prefixed to his Modifations, Descurtes declares that his demonstrations of the existence of God, etc., 'equal, or even surpass, in certifude the demonstrations of geometry.' Upon what does he found this belief? He founds it upon the very nature of certifude. Consciousness is the basis of all certifude. Whatever I am distinctly conscious of, I must be certain of; all the ideas which I find in my Consciousness, as distinctly conceived, must be true. The belief I have in my existence is derived from the fact of my Consciousness: I think, therefore I print. Now as soon as I conceive a truth with distinctness, I san investibily led to believe in it; and if that belief is so firm that I can never have any consent to doubt that which I believe, I have all the certifude that can be desired.

Further: we have so knowledge whatever of anything external to as except through the medium of ideas. The connequence is, may Describe, that whistover we find in the ideas want necessarily be in the external things.

It is only in our minds that we can seek whether things wrist, or not. There cannot be more reality in an effect than in a cause. The external thing, being the cause of the idea, must therefore possess as much reality as the idea, and wer revisi. So that whatever we conceive as existent, exists

This is the basis on which Descartes' system is errored; if this basis he rotten, the inperstructure must fall. If the root is vitinted, the tree will bear no fesit. No thinker, except Spinora, has so clearly, so frunkly stated his criterions. Let us then accept the challenge which it offers, since an apportunity is now afforded of bringing together in a narrow field the defenders and autagonists of philosophy.

If Descartes is wrong—if Consciousness is not the altimate granted of Certitude, embracing both objective and subjective—if ideas are not the internal copies of external things—then must Philosophy be content to reliaquish all claim to certitude, and find refuge again in Paith.

And Descurtes is urong. The very Consciousness to which he appeals, convicts him. There is this fallacy in his system: Conseis onmess is the ultimate ground of cersitude, for me; if I am con-

scions that I exist, I cannot doubt that I exist; if I am conscious
of pain, I must be in pain. This is self-evident. But what ground
of certitude can my Consciousness afford respecting things which are
not me? How does the principle of certitude apply? How far does
it extend? It can only extend to things which relate to me. I am
conscious of all that passes within squelf; but I am not conscious
of what passes in sockarlf—all that I can possibly know of the autnelf is in its effects upon me.

Consciousness is therefore 'cabin'd, crith'd, confined to see, and to what passes within see, so far does the principle of certitude extend, and no further. Any other ideas we may have, any knowledge we may have respecting not-self, can only be founded on inferences. Thus, I burn myself in the tree: I am conscious of the sensation; I have certain and immediate knowledge of that. But I can only be certain that a change has taken place in my consciousness; when from that change I infer the existence of an external object (the fee), my inference may be correct, but I have obviously shifted my ground; Consciousness—my principle of certitude—forsakes me here: I go out of myself to infer the existence of something which is not-self. My knowledge of the sensation was measurable, indiabitable. My knowledge of the object is mediate, uncertain.

Directly therefore we leave the ground of Consciousness for that of inference, arranges of doubt are opened. Other inferences can be becoglit to hear rueu any one inference to illustrate or to refote it. The mathematical certainty which Descartes attributed to those inferences becomes a great uncertainty. He says we only know things through the medium of ideas. We will accept the proposition as anguesticable. But then he also says that, in consequence of this, whatever we find in the ideas must necessarily be true of the things. The reason is, that as ideas are caused in us by objects, and as every effect must have as much reality as the cause—the effect being equal to the cause so must ideas have the same reality as things. But this is a double fallacy. In the first place, an effect is not equal to its cause; it is a more consequent of an antecedent, having ne such relation as equality whatever. In the second place, the we of the term "reality" is ambiguous. Unquestionably an effect really exists; but reality of existence does not imply monitority of modes of existtuce. The burn occasioned by a fire is as real as the fire; but it in no way remodes the fire.

So when Descurtes says that what is true of ideas must be true

of things, he assumes that the mind is a passive recipient—a mirror, in which things reflect themselves. This is altogether followings; the mind is an active co-operator in all sensation—sensation is a consciousness of changes aperated in conscious, not a consciousness of the objects cossing those changes. In truth, so far from our being able to approbend the nature of things external to us, there is an improvemble screen for ever placed before our eyes, and that improvemble screen is the very Councionsness upon which Descartes relies. When placed in contact with external objects, they operate upon us; their operations we know, themselves we cannot know; procisely because our knowledge of them is mediate, and the medium is our Conscionances. Into whatever regions we wander, we carry with us this Consequences, by means of which, indeed, we know, but all we know, is—ourselver.

Knowledge is composed of Ideas. Ideas are the joint product of mind on the one hand, and of external causes on the other) or rather we may say that Ideas are the products of mind excited by external causes. Upon what principles of inference (since we are here on the ground of inference) can you infer that the ideas excited are exples of the exciting causes—that the ideas excited apprehend the whole nature of the causes? The cause of the fallacy is in that very strong disposition to give objectivity to a law of the unud; in consequence of which we often hear people declare that something they are asserting is 'involved in the idea.'

There is one mode of escape left for those who believe in the validity of ontological speculations; namely, to assert the existence of favote filess, or—as the theory is generally stated in modern times—of Necessary Traths independent of all experience. If the idea of God, for example, be innate in us, it is no longer a matter of inference, but of Consciousness; and on such an hypothesis Deseartes is correct in believing that the certainty of this idea equals the certainty of geometry.

But some maintain that he did not assert the existence of Innate Ideas, though, from its having been a doctrine maintained by his followers, it is usually attributed to him. Degald Stewart quotes the following passage from Descartes in reply to his adversaries, who are used him of hobbing the tenet of Lunnte Ideas;—' When I said that the idea of God is innate in us, I never recent more than this, that Nature has endowed as with a faculty by which we may have God; but I have never either said or thought that such ideas had an actual existence, or even that they were a species distinct from the faculty of thinking. . . . Although the idea of God is so imprinted on our minds that every person has within himself the faculty of knowing How, it does not follow that there may not have been various individuals who have possed through life without making this idea a distinct object of apprehension; and, in truth, they who think they have an idea of a plurality of Gods have no idea of God whatever."

From this it would appear that he did not hold the doctrine of Innate Ideas. But we must venture to dissent from the conclusion Amon by Durald Stewart on the strength of such a passage; arount that passage we will bring another equally explicit (we could bring fully, if necessary', which asserts the existence of Innate Ideas, By the word idea, he says, 'I anderstand all that can be in our thoughts; and I distinguish three sorts of ideas; -edess/itious, like the common idea of the van; formed by the mind, such as that which astronomical reasoning gives of the sun; and issuer, as the idea of God, mind, body, a triangle, and generally all those selick represent true inscutable and elernal exerces. 4 This last explanation is distinct; and it is all that the serious antagonists of famate Ideas have ever combated. If Descartes, when present by objections, gave different explanations, we may attribute that to the want of a steady conception of the vital importance of Innate Ideas in his system. The fact remains that Innate Ideas form the secessary groundweek of the Cartesian doctrine.

Although the theory of Innate Ideas may, in its Cartesian form, be said to be exploded, it does really continue to be uplield, under a new form. A consistion of the parameters necessity of some such groundwork for metaphysical speculation has led to the modern theory of Necessary Tradks. This plansible theory has been adopted by Dr. Wherrell in his Philosophy of the Inductive Sciences; but his arguments have been completely shuttered by John Mill on the one hand, and by Sir John Herschel on the other.

The basis of all modera ontological operatations lies in assumption that we have ideas independent of experience. Experience can only tell us of ourselves, or of phenomena; of nonmena it can tell us nothing. That we have no ideas independent of experience has been clearly enough established in the best schools of psychology;

^{*} Letters de Descardes, les

If Spirious of Logic, book is, ch. v., and Questiofy Series. June, 1841 a indical. Dr. Where the spirious had been authopated and reflated by Locke long before. See Energ. book in, sh. t. 7.

but the existence of metaphysical speculation process that the exatuary opinion still finds numerous subalders."

The findamental question then of modern Philosophy was this, Have we any Ideas independent of Ex, crience? And the attempts to solve it will occupy the greater pertian of our history. Before entering upon it we must exhibit the Method of Desearces, pushed to its ultimate conclusions in Spinora 9

* See the question discussed further on : Epoch VIII. § v.

[†] The best modern works on Descartes, apart from regular Histories of Philosophy, are M. Francisque Boullar's Histories et Critique de la Rémlation Corrisionee, Paris, 1842; M. Ch. Bencercier's Massact de la Philosophie, Molorne, Paris, 1841; and Fourchich's Gerekielte der scarra Philosophie, Leipzig, 1842. The best edition of Descartes' works is that by Victor Cousin, in eleven vola, 8vo, Paris, 1820. M. Jules Sanon has also published a choup and convenient edition, in one volume, of the Discourse on Method, the Meditations, and the Treatise on the Passions, Paris, 1844. Both of these larro boys casellently translated into English (Edinburgh, 1853).

CHAPTER II.

SPINOZA.

& L. SPINOZA's LOTE.

EARLY in the serenteenth century, on a fair evening of sammer, a little Jewish boy was playing with his sisters on the Burgwal of Amsterdam, close to the Portuguese synagogue. His face was mild and segentous; his eyes were small, but bright, quick, and practrative; and the dark how floated in Invariant curls over his neck and shoulders. Noticeable, perhaps, for his beauty and joyonsness, the little boy played amongst the active citizens of that active town. The Datch then occupied the thoughtful attention of all Europe. After having first compared for themselves firm footing on this curth, by reaching their country from the sea, they had thrown off the oppressive yeke of Spain; and had now conquered for themselves a freedom from a far greater tyramy, the tyramy of thought.

Amsterdam was noisy with the creaking of cordage, the bawling of sailors, and the busy trafficking of traders. The Zayder Zee was crowded with vessels laden with percions stores from all quarters of the globe. The casals which ramify that city, like a great arterial system, were blocked up with bouts and burges: the whole series was visid with the greatness and the littleness of commerce. Head-less of all this turnoid, as unleeded in it—hardless of all those higher mysteries of existence, the solution of which was hereafter to be the endeavour of his life—untouched by any of those strange questions which a restless spirit cannot master, but which it refuses to have answered by others—baciless of everything but his game, the little loop played merrily with his sisters. That boy was Beardiest Spinors.

It is a pleasant thing to think of Spinora as a boy, playing at boyish games. He has for so long been the bugbear of theologians and timid thinkers; he has for so long been looked upon as a monster, an atheux, and (to add to the borror) a Jewish athese; and looked upon, even by those who were not so aghast at the consequences of his system, as nothing more than a frigid logician, that we dwell with singular pleasure on any more hausen aspect of his character. We hope, ere we have done, to convince the reader that this rigorous logician was a wise, virtuous, and affectionate man.

His parents were honest merchants of Amsterdam, who had settled there in company with a number of their brethren, on escaping the persecution to which all Jews were subject in Spain. The young Baruch* was at first destined to commerce, but his passion for study, and the precocity of his intrilices, made his purcuts after their resolution in favour of a rabbanical education: a resolution warranted by sickliness of constitution which had increased his low of study. The sickly child is mostly thoughtful: he is thrown upon himself and his own resources; he suffers, and asks himself the cause of his pains, asks himself whether the world suffers like him; whether he is one with nature, and subject to the same laws, or whether he is apart from it, and regulated by distinct laws. From these he rises to the awful questions—Why? Whenes? and Whither?

The education of the Jose was almost exclusively religious, the Old Testament and the Talmud forming their principal studies. Spinora entered into them with a function seal, which, backed as it was by remarkable practitation and sutelety, won the admiration of the Chief Rabbin Saul Lesi Morteira, who became his guide and instructor. Great indeed were the hopes entertained of this youth, who at fourteen risalled almost all the doctors in the exactitude and extent of his biblical knowledge. But these hopes were turned to feurs, when they saw that young and pertunctions spirit pursue his undownted impairies into whatever region they conducted him, and found him putting difficulties to them which they, Rabbins and philosophers, were mable to solve.

Spinous was to be deterred neither by threats nor by sophistications. He found in the Old Testament no mention of the doctrine of immortality: there was complete silence on the point.† He made no secret of his opinions; and two of his schoolfellows, igni-

Burnch was Spinous's Hebrew name, which he houself translated into Latin as Boucheten; from which some have errorseously supposed that he embraced Christianity, whereas he only renormed Judaiem.

[†] On this silence Warburton endeavoured to establish the divinity of the Legation of Moses; and Bishop Sherlock has exerted considerable ingeneity in explaining the discrepancy which scepties had seized hold of as an argument in their flavour.

386 EPENORA

tated at his intellectual superiority, or else anxious to curry favour with the Robbins, reported his berosy with the usual fertility of exaggeration. Summand to appear before the Synagogue, he obousd with a gay condensues, conscious of his immeetare. His judges, studing him obstitute in his opinious, threatened him with exconsimulations he assumed with a smeer. Morteira, informed of the danger, historied to confront his rebellious pupil; but Spinous remained as untouched by his rhenorie as he was unconvinced by his arguments. Europed at this faither, Morteira took a higher tone, and threatened him with excommunication, unless he at once retracted. His pupil was irritated, and replied in streams. The Rabbin then impetuously broke up the assembly, and coved only to esture with the thursderbolt in his hand."

In anticipation of the threatened excommunication, Spinors wisely workdown himself from the Synagogue—a step which profoundly morrifed his enemies, as he thereby rendered fatile all intimidations which had been employed against him, particularly the otherwise terrible excommunication; for what terror could such a sentence impire in one who soluntarily absented himself from the socurty which pretended to exclude him?

Detailing his shility, and the force of his example, the Syragogue made him as offer of an annual pension of a thousand florins, if he would only consent to be silent, and assist from time to time at their covernouses. Spinora, indignant at such an attempt to patter with his commissioner, refused it with scorn. One evening, as he was coming out of the theatre, where he had been relaxing his overtacked mind, he was startled by the force expression of a dark face, thrust engerly before his. The glare of bloodthirsty functions arrested him; a knife gleamed in the air, and he had barely time to purry the blow. It fell upon his class, but, fortunately deadened in its force, only tore his coat. The assessin escaped. Spinora walked home thoughtfal.⁸

The day of excommunication at length arrived; and a vast our course of Jews assembled to witness the awful ceremony. It begue by the selemn and silent lighting of a quantity of black wax candles, and by opening the tabernacie wherein were deposited the Books of

^{*} Some of the biographers contradict Rayle's statement of the assumination long attempted as Spinson was leveling the theatre, and declare that he was exacing from the Synagogue; but they forget that he had entirely renounced going there, and this was the probable motive of the assuming.

the Law of Moses. Thus were the dim imaginations of the faithful prepared for all the horser of the scene. Morteira, the meient
friend and master, now the flewest enemy of the condensed, was
to order the execution of the sentence. He stood there, passed,
but implacable; the people fixed their eager eyes upon him. High
above, the chanter rose and chanted forth, in local laguerious torces,
the words of execution; while from the opposite side another
mingled with these curses the thrilling sounds of the trumpet; and
now the black candles were reversal, and were made to neit drop
by drop into a huge tub filled with blood. This spectacle—a symbol
of the most terrible faith—made the whole assembly shudler; and
when the faul distilled with blood, a cey of religious borror and
execution hurst from all; and in that selema darkness, and to
those selema curses, they shouted Amess, Amesa!

Thus was the young truth-serker expelled from his community, his friends and relations forbifden to held intercourse with him. Like the roung and energetic Shelley, who afterwards initated him, he found himself an outcost in this busy world, with no other guides through its perplexing labyrinals than sincerity and self-dependence. Two or three new friends suon presented themselves; men who warred against their religion as he had warred ngainst his own; and a bond of sympathy was forged out of a common injustice. Here again we trace a resemblance to Shelley, who, discommended by his relations, sought amongst a few sceptical friends to supply the affections he was thus deprived of. Like Spinoen, he too had only sisters, with whom he had been brought up. No doubt, in both cases, the conscioneness of succentr, and the pride of martyrdom, were great sustainments in this combat with society. They are always so ; and it is well that they are so, or the lattle would never be fought; but they acver entirely replace the affections. Shut out from our family, we may seek a brotherhood of apostasy; but these new and precarious intellectual sympathies are small compensation for the loss of the emotional evenpathies, with all their links of association, and all their memories of childbood.

Spinora must have felt this, and, to fill the void of his yearning heart, he sought the daughter of his friend and master, Van den Ende, as his wife.

This Van den Ende had some influence on Spinora's life. He was a physician in Amsterdam, who conducted a philological semi388 SPENOZAL

many with such success, that all the wealthy citizens sent him their some; but it was afterwards asserted, that to every dose of Latin he added a grain of atheism. He undertook to instruct Spinoza in Latin, and to give him board and hodging, on condition that he should subsequently aid him in instructing his scholars. This Spinom accepted with joy; for although master of the Hebrew, German, Spanish, Portuguese (and of course Dutch) languages, he had long felt the organt necessity of Latin.

Van den Ende had a daughter; her personal charms were equieneral, but she was thoroughly versed in Latin, and was an seconsplished musician. The task of teaching young Benefict generally fell to ler; and as a consequence the pupil soon became in lawwith the tutor. We often picture this courtship as a sort of odd reverse of Abshard and Heloise. Spinora, we fancy, not inattentive to the instruction, but the more in love with it coming from so soft a month; not institutive, yet not wholly absorbed. He watches her hand as it moves along the page, and longs to squeeze it. While 'looking out' in the dictionary, their hands touch-and he is thrilled ; but the word is found, nevertheless. The lesson mind; he ventures on a timal compliment, which she receives with a kind smile, but the smile is lost, for the bashful philosopher has his eyes on the ground; when he raises them, it is to see her trip away to household duties, or to another pupil; and he looks after her sighing. But, also for midenly discernment! our female Abelard was more captivated by the showy attractions of a certain Kerkering. a young Hamburg merchant, who had also taken lessons in Latin and love from the fair teacher; and who, having backed his pretensions by the more potent seductions of pearl needlaces, rings, etc., quite cast poor Benedict into the shade, who then turned from love to philosophy.

His progress in Latin had however been considerable; he read it with facility, and found it invaluable in his philosophical studies, especially as the works of Descartes new fell into his hands; these he studied with intense artifuty, feeling that a new world was therein revealed. The laws of the ascient Jewish doctors expressly cujoin the necessity of learning some mechanical art, as well as the study of the law. It was not enough, they said, to be a scholar—the means of subsistence must also be learned. Spinous had accordingly, while belonging to the Synagogue, learnt the art of polishing glasses for telescopes, microscopes, etc., in which he arrived at such proficiency that Leibnitz, writing to him, mentioned,

'Anong the honorable things which fame has acquainted me with respecting you, I learn with no small interest that you are a elever optician.' By polishing plasses he gained a subsistence—bumble, it is true, but equal to his wants. To this be joined, by way of relaxation, the study of design, and seem became very expert. Colérus had a portfolio of portraits of several distinguished new, sketched by him; and one among them was a portrait of himself, in the dress of Masanielle."

In his eight-and-twentieth year Spinom left his natal city of Amsterdam, and resolving to devote his life to study, ordired to Bhymburg, near Leyden, where, still pursuing his trade as a glasspolisher, he devoted every source hour to utiliseothy. The fruits of his solitude were the Abridgment of the Meditations of Descrites, with an Appendix, in which he first disclosed the principal points of his own system. This is a very interesting work. It contains the most accurate and comprehensible account of Discurtes over written; and the Appendix is enrious, as containing the germ of the Ettion. It made a profound sessation; and when, the following year, he removed to Weorburg, a small village near the Hagne, his reputation attracted to him a great concourse of civitors. Many comities were excited amongst the disciples of Descartes, by the exposition of the weak points of their master's system; and Spinson had to suffer their rule attacks in consequence. But the attention. of all thinking men was fixed mon laur; and the elearness and percision of his work won him admiration. So many new friendships did he form, that he at last yacided to the numerous solicitations that he should come and live entirely at the Hagne. It was not the learned alone who sought his friendship; men of rank in public affairs were also numbered amongst them. Of the latter wemay mention the celebrated Jan de Witt, who loved Spinom, and profited by his advice in many an emergency. The great Coudé also, during the invasion of Holland by the French, sent to desire Suinom to come and see him. The Philosopher obeyed, but the Prince was prevented from keeping his appointment-to his own loss. This ionmey was very near proving fatal to Spinera. The populace having learned that he had been in communication with the enemy, began to suspect him of being a spy. His builford, alarmed at

^{* &#}x27;Your engages have not failed to assert that by that you pretended to show that you would create in a little while the same upone in Christianity that Maximallo created in Naples, —Research & Royle see: Spinces that Caute Monte. 1711.

\$90 5975024

these reports, warned him of them; he feared, he said, that the populace would attack the house. "Fear nothing," replied Spirora calmly; "it is casy for me to instife again, and there are persons enough who know the object of my journey; but whatever may arrive, as soon as the people assemble before your door, I will go out and meet them, even though I should share the fate of De Watt." The same cubin courage which made him proclaim the truth, now made him ready to confront the infortated possibles. Fortunately all passed off in peace, and he was left to his studies. Karl Ludwig, mixious to secure as illustrious a thinker, offered him the vacunt chair of Philosophy at Heidelberg, which, however, Spinora could not accept, conscious that the philosophy he would teach was too closely allied to theology not to trench on its dogmas; and the Elector had expressly stigulated that he should teach nothing which could prejudice the established religion. He therefore begged to decline it, as his public duties would interfere with his private meditations. Yet it was both a lucrative and honourable post be refused; but a philosophical contempt for worldly become was amongst his characteristics.

It is invigorating to contemplate Spinom's life. Dependent on his own manual exercious for his daily bread, limited in his wants, and declining all perminey assistance so liberally offered by his triends, he was always at case, cheerful, and occupied. There is an heroic firmness traceable in every act of his life; there is a perpetual sease of man's independence, worthy all imitation. He refuses to accept the belief of another man-he will believe for himself; he wers mysteries around him, awful, inexplicable; but he will accept of no man's explanation. God has given bim a soul, and with that he will solve the problem, or remain without a solution. He leaves the Synagogue; he leaves Descartes; he thinks for himself. In a for subordinate sphere he will also assert his independence. Having but the most miserable pittance, and with the purses of his friends open to liim, he preferred limiting his desires, to accepting their hounties. He perferred working, and gaining his own subsistence, so long as it was to be gained. This was no crotchet, neither was it ignoble calculation. The friends were sincere, their offers were were sincere; he knew it, but thanked them, and declined. The heritage, which on his father's death fell to his lot, he resigned to his sisters. The large property which his friend Simon de Vries had appounced his intention of leaving him, he would not consent to accept; but made Simon alter his will in favour of his brother

at Schiedum. The persion offered him if he would dedicate his next work to Louis XIV, he refused, "having no intention of dedicating mything to that monarch." He was indebted to no one but to God; who had given him talents, and energy to make those talents available, not to let them and him not in ideaces, or in ignoble dependence, while all the world had to toil."

Yet it was a hard, griping poverty that he embared. On looking over his papers after his death, they found accounts of his expenditure. One day he are nothing but a sweet on /oit, with a little butter, which cost about three halfbence, and a pot of bear, which cost three farthings more. Another day he lived on a besin of gruel, with some butter and raisins, which cost him twonesce halfpenny; 'And,' says the postor Colérus, 'although often invited to dimer, he preferred the scarty meal that he found at launa, to during sumptionsly at the expense of mother.' This was the man who was, by his contemporaries, branded with the names of Atheist and Enjeurence; and who has home those names for ever after through all Europe, excepting only Germany. While on the one hand no man was perhaps over more filled with religion (so that Navalis could call him 'a God-intracented man'), on the other hand his Epicureanism, at twopence-halfpeuny sterling per diem, stands a legible charge against him.

The publication of his Tractatus Theologico-Politicas was an event of some importance, both in the history of philosophy and of Spinora. The state of men's usinds at that period was not favoursable to the reception of any great philosophical system; and Spinora found himself obliged to prepare the way for his fature dostrines, by examining the nature of that reclaimstical power which could excite at will such violent perturbation in the State, and by examining also the foundations on which that power reposed. This great question still agitates mankind; and it is an curious as instructive to observe that the late orthodox and estimable Dr. Arodd taught a doctrine precisely similar to that taught by the heretical and persecuted Spinora.)

† Compare Arnold. Introductory Lectures on Modern History : Appendix to the first Lecture.

^{*} It was in a man's own energy that he saw the germ of worth and grantness, and wirely ridicaled the sector of patronage in this noteworthy passage; * Governments should never found analouses, for they serve more to oppose than to encourage genins. The unique method of making the sets and sciences flourish, is to allow every individual to teach what he thinks, at his own risk and pred."—These. Public c. 3, § 40.

302 SPINOZA

Times were troubled. Holland, it is true, was reposing on her laurels, was in the long and desperate struggle against Spain. Having freed herself from a foreign yoke, she had, one would finery, little now to do but to complete her canals, extend her commutee, and enjoy her peace. But this had of political freedom-this ark of refuge for the persecuted of all nations—the republic whose banner sus freedom, and in whose cities European freellinkers published their works-was disturbed by theological faction. The persecuted Jees might flock from Spain and Portugal, the synagogue might rear itself beside the church; the Protestants of France and Belgiam were welcome as brothers and citizens; but, arrived there, the fugitives might witness, even these, the implacable war of party. Toleration was afforded to political freethinking, and to the diversities of religiou; but, within the pule of the State religiou, malice and all uncharitableness were daily witnessed. There the Gomerists and Armhous disputed concerning the infullibility of their doctrines, and cloaked their political ambition under evangelical protestations."

This was the state of things on the appearance of the Trectains. Spinora, socing the deplorable dissensions of the theologisms, realentoward to make evident the necessity of a State religion, which, without absolutely imposing, or interfering with, private creeds, should regulate all outward observances. Because, as it is the office of the State to watch over all that concerns the common welfare, so should it watch over the Church, and direct it according to the general wish. But two things perfectly distinct must not here be confounded, via liberty of observance and liberty of thought. The latter is independent of all civil power; but the former must be subject to it, for the sake of the public tranquility.

Although this portion of the Tractates could not have met with general approbation, yet it would scarcely have miscal violent dissensions, had Spinom confined himself to such speculation; but, anticipating the rationalism of modern Germans, he undertook a criticism of the Bible, and attacked the institution of priesthood as injurious to the general welfare. It is entions to notice Spinom's anticipation of the Hegelian Christology, which, in the hands of Strauss, Fruerbach, and Bruno Bauer, has made so much noise in the theological world:—'I tell you,' says Spinom, in his letter to Oldenburg, 'that it is not necessary for your salvation that

^{*} Saigies, Histoire de la Fis de Spinoas, p. 63.

you should believe in Christ according to the flesh; but of that eternal son of God, i. e. eternal window of God, which is manifested in all things, but mostly in the basson mind, and must of all in Jones Clerist, a very different conception innst be formed.'- Dico ad salutem non esse omninò necesso, Christum secundom carnem noscere, sed de æterno illo filio Dei, hoe est. Dei æternû sapientià, quar sess in omnibus rebus, et maximò in mente humanà et omnium maxime in Christo Jesu manifestavit, longe aliter sentiendum." The consequences were as might have been expected: the book was at once condenoued, and forbidden to be received in almost every country. This, as usual, only gave a greater atimulus to enriosity, and the sensation the work produced may be judged of by the quantity of "refutations" which appeared. Many were the artifices used to introduce it into the various countries. An edition was published at Leyden, under this title; Day, Hemir Operum Historicornu collectio prima. Edit. II., priori editione mello exendeliar et unction; account quarkon hackeous insolita. This was requisted at Amsterdam as Hearignez de l'illacorta, M. Dr. a Caliculo Philippi IV., Caroli II., Archiatri Opera chirargica omicia, sali mutoiciis potra-Hissiani Hispanelarson Regis. This absurd title was adopted to pass it into Spain. Another edition in French, called La C'ef du Senetasice, was published at Leyden in 1678, and in Amsterdam as Traité des Cérémonies des Jujús, and again au Réflexions curiennes et an Enwit desintereed.

Spinner's devotion to study, with its concurrent abstenieumess and want of exercise, soon undermixed his constitution; but he never complained. He suffered that, as he had suffered everything also, —in silence. Once only, a hint escapes him. 'If my life be continued,' he writes to a friend respecting a positive to explain certain matters. No phost—no regret—neerly a condition put upon a promise. He was a calm, heave man; he could confront disease and feath, as he had confronted poverty and persecution. Beavery of the highest kind distinguished him through life, and it was not likely to fail him on the quitting it; and yet beneath that calm, order stoicism, there was a childike guiety springing from a warm and sympathizing heart. His character was made up of generous simplicity and horoic forbearance. He could space somewhat from even his scanty pittance to relieve the wretched. He taught the largued world the doctrines he had elaborated with endless toil;

^{*} Opera Parthum, p. 450.

394 SPINORA

but he taught children to be regular in their attendance on divine service. He would question his last and hostess, on their return from church, respecting the sermon they had heard, and the benefit they had derived. He had no unwise provelytism which would destroy convictions in minds unfitted to receive others. Our day has hostess asked him if he believed that she would be saved by her religion. He answered, 'Your religion is a good one—you sught not to seek another, nor doubt that yours will procure your sainstion, provided you whit to your pirty the tranquil virtues of demestic life.' Words full of window, springing from an affectionate and experienced mind.

So lived the Jew, Spinoza. So he developed his own nature, and usuisted the development in relieve. Given up to philosophy, he found in it 'the true medicine of the soul' of which Cierro speaks." His only relaxations were his pipe, receiving visitors, chatting to the people of his house, and watching spiders light. This last answement would make the tears roll down his cheeks with laughter.

The communication of the year 1677 found him near his end, The phthisis, which he had suffered from for twenty years, now alarmingly increased. On Sunday, the 22nd February, he insisted on his kind host and hostoss leaving him, and attending divine service, as he would not permit his illness to obstruct their denotions. They obeyed. On their return he talked with them about the senueu, and ate some broth with a good appetite. After dinner his friends returned to church, leaving the physician with him. When they came bone they learned, with sorrow and surprise, that he had expired about three o'clock, in the presence of the physician, who soited what money there was on the table, together with a silver handled knife, and left the body without further care. So died, in his forty-fifth year, in the full sigour and maturity of his intellect, Beardiet Suinoga, 'Offer up with me a lock of hair to the names of the hely but repuliated Spinera It exclaims the pions Schleiermacher. 'The great spirit of the world penetrated him; the Infinite was his beginning and his end; the universe his only and eternal form. He was filled with religion and religious feeling; and therefore it is that he stands alone, unsupercichable; the master in his art, but elecated above the profine world, without niherents, and wethout even citizenship."

^{*} Crees, Part. 76. 9. Compare also the five saying of Greeduce Brand (p. 330).

⁴ Schleiermseller, Red ther die Religiou p. 47.

§ II. SPINOZA DOCTRINE.

The system of Spinoza, which has excited so much odium, is but the logical development of the system of Descartes which has excited so much administion. Curious! The demonstration of the existence of God was one of Descartes' proudest hursels; the demonstration of the existence of God—and of no other existence being possible—condemned Spinoza to almost universal exception.

Dugald Stewart, generally one of the most condid of men, evidently shared the common projudice with respect to Spinora. He refuses therefore to admit that Spinora, whom he dislikes, held episions at all similar to those of Descartes, whom he admires, 'It was in little else,' may he, 'than his physical prisciples that he agreed with Descartes; for no two philosophers ever differed more widely in their metaphysical and theological tenets. Fontenelle characterizes his system as Cartesianism pushed to extravagance.' This is far from correct. Spinora differed with Descartes on a few points, and agreed with him on most; the differences were only those of a more rigorous logical development of the principles both maintained.

It was at an important era in Spinoca's life that the writings of Descartes fell is his way. He was then striving to solve for himself the inexplicable riddle of the universe. He had studied with the learned Mortein; but though wise in all the wisdom of the Jews, he was still at an immeasurable distance from the desired solution. Descartes captivated him by the belaness of his logic, and by the independent nature of his Method, whereby truth was sought in the inner world of man, not in the outward world, nor in the records of authority. He studied Descartes with avidity; but he soon found that there also the riddle remained unsolved. He found the fart of his own existence accommends superfluously established; but the far greater existence in which his own was included—of which the great All was but a varied manifestation—of this he found no demonstration. Cogifo, ergo and, is irresistible. Cogifo, ergo Descent, is no base for philosophy.

Spinora therefore asked himself—What is the managers which lies beneath all pleasuress? We see everywhere transformations perishable and perishing; yet there must be something beneath, which is imperishable, immutable; what is it? We see a wondrous naiverse peopled with wondrous beings, yet none of these beings exist per se, but per disal; they are not the authors of their own existence; they do not rest upon their own reality, but on a greater reality—on that of the rolls and rolls. What is this reality?

The question, Spinora thought, could not be assumed by the idea of Perfection. No: the great reality of all existence is Substance. Not Substance in the gross and popular some of 'body' or 'matter,' but the auforous—that which is standing under all phenomena, supporting and giving them reality. What is a phenomenan? An appearance, a thing perceived: a state of the perceiving mind. But what originates this perception—what changes the mind from its prior to its present state? Something, external and extrinsic, changes it. What is this something? What it is, in itself, we can never know: because to know it would bring it under the forms and conditions of the mind, i. e. would constitute it a phenomenon:—unknown, therefore, but not denied—this con—this something, is: and this, which Kant calls accesses to, Spinora calls Substance.

All philosophy, as all existence, must start from our principle, which must be the ground of all. What is this commencement—this \$\laphi_{P}\eta(\cdot\)? Perfection, replies Descartes. No, says Spinoma, Perfection is an attribute of something prior to it. Substance is the \$\laphi_{P}\eta(\cdot\). Descartes, in common with most philosophers, had assumed a duality; he had assumed a God, and a world created by God. Substance, to him, was by no means the primal fact of all existence; on the contrary, he maintained that both Extension and Thought were Substances; in other words, that mind and matter were distinct independent Substances, different in essence, and mitted only by God. Spinors affermed that both Extension and Thought were nothing more than Attributes; and by a subtle synthesis he reduced the duality of Descartes to an all-embracing unity, and thus arrived at a conception of the One.

The absolute Existence—the Substance—(call it what you will) is God. From Him all individual concrete existences urise. All that exists, exists in and by God; and can only thus be conceived. Here then the mystery of the world begins to unfold itself to the patient thanker; he recognizes God as the fountain of life; he sees in the universe nothing but the manifestation of God; the finite rests upon the bosom of the infinite; the inconceivable variety resolves itself into unity. There is but one reality, and that is God.

Such was Spinous's solution of the problem; upon this he felt be could repose in prace, and upon this only. To live with Godto know God with perfect knowledge, was the highest point of human development and happeness; and to this he consecrated his life. Taking the words of St. Paul, In Him we live, move, and have our being,' as his motto, he undertook to trace the relations of the world to God and to man, and those of man to society.

Spinoza agreed with Descartes in these three vital positions:—

1. The basis of all certitude is Consciousness, II. Whatever is clearly perceived in Consciousness must therefore be necessarily true; and distinct ideas are true ideas, true expressions of objective existences. III. Consequently metaphysical problems are susceptible of mathematical demonstration.

The only novelty in Spinoza's Method is, that it is a further desciopment of the Method of Descartes. Descartes thought that the mathematical Method was capable of being applied to metaphysics, but he did not apply it; Spinoza did apply it. This may seem a trifling addition; in reality it was the source of all the differences between Spinoza and his teacher. Descartes' principles will inevitally lend to Spinoza's system, if those principles are rigorously carried out. But Descartes never attempted the rigorous deduction of those consequences, which Spinoza, using the mathematical method, calmly and inflexibly deduced. Those who relied at the conclusions drawn, must impage the premises from which they are drawn; for the system of Spinoza is neither more nor less than a demonstration.

To this demonstration we are about to lead our readers, and only beg of them a little steady attention and a little patient thought, convinced that they will then have little difficulty in finding their way. We shall translate some portions of the Ethior with the atmost care, became we think it every way advisable that the reader should have Spinora's own mode of statement, and thereby be embted to watch his manner of deducing his conclusions from his premisses. The work opens with eight

DEPLYTTIONS.

I. By a thing which is its own Cause 1 understand a thing, the cosmice of which involves existence; or the nature of which can only be considered as existent."

^{*} This is an important defeation, as it gets rid of the verbal peoplexity hitherto felt exhitive to an "realises chain of causes." The doubter night always ask the cause of the first cause is the series; but here, by identifying cause and existence, Spinson samitifates the difficulty.

- II. A thing finite is that which can be limited (terminari potent) by another thing of the same nature, e. g. hody is said to be finite because it can always be conceived as larger. So thought is limited by other thoughts. But body does not limit thought, nor thought limit body.
- III. By Substance I understand that which exists in itself, and is conceived per ar : In other words, the conception of which does not require the conception of anything else autocodent to it.
- IV. By Attribute I understand that which the mind perceives as constituting the very sorner of Substance.
- V. By Modes I understand the accidents (affectiones) of Sulntaners or that which is in something clos through which also it is conceived.
- VI. By God I understand the Being absolutely induite, i. e. the Substance consisting of infinite Attributes, each of which expresses an infinite and eternal essence.
- Exploseliss: I say absolutely infinite, but not infinite see genere; for to whatever is infinite only see genere, we can deay infinite Attributes; but that which is absolutely infinite includes in its owners everything which implies essence, and involves no negation.
- VII. That thing is said to be free which exists by the sole accessity of its nature, and by itself aime is determined to action. But that thing is necessary, or rather constrained, which trees its existence to another, and acts according to certain and determinate causes.
- VIII. By Eteraity I understand Existence itself, in as far as it is conceived necessarily to follow from the sole definition of an eternal thing.

These are the Definitions: they need not long be dwelt on, although frequently referred to by him; above all, no objection ought to be raised against them, as musual or natrue, for they are the meanings of various terms in constant use with Spinora, and be has a right to use them as he pleases, provided he does not afterwants depart from this use, which he is careful not to do. We now come to the seven

ATTOMS.

- 1. Everything which is, is in itself, or in some other thing-
- II. That which cannot be conceived through another (per abod) must be conceived through itself (per se).

- III. From a given determinate cause the effect necessarily follows: and rice error, if no determinate cause be given, no effect can follow.
- IV. The knowledge of an effect depends on the knowledge of the cause, and implies it.
- V. Things that have nothing in common with each other cannot be understood by means of each other, i. e. the conception of one does not involve the conception of the other.
- VI. A true idea must agree with its object (idea neva delet case see (ideals concentry).
- VII. Whatever can be clearly conceived as non-existent, does not, in its essence, involve existence.

These axioms at once command assent, if we except the fourth, which, because the wording is ambiguous, has been sometimes thought absurd; but the truth is, that the opossite conceptions now president respecting cause and effect present a real appreciation of this axiom. Mr. Hallam goes so far as to say, 'It seems to be in this fourth axiom, and in the proposition grounded upon it, that the fundamental fallacy lurks. The relation between a cause and effect is surely something perfectly different from our perfect escoprehension of it, or indeed from our having any knows ledge of it at all; much less can the contrary assertion be deemed axiomatic." There is a want of subtlety in this criticism, as well as a want of congrehension of Spinom's doctrines; and we wonder it never suggested itself to Mr. Hallam that the modern notions of cause and effect do not correspond with the Spinoristic notions. In the above axious it is not meant that there are no effects manifested. to us of which we do not also know the causes-it is not meant that a man receiving a blow in the dark is not aware of that blow (effect), though ignorant of the immediate come. What is meant. is, that a complete and comprehensive knowledge of the effect is only to be obtained through a complete and comprehensive knowledge of the cause. If you would know the effect in its totality in leadf-you must know also the cause in its totality. This is obvious; for what is an effect?—an effect is a cause realized; it is the nature natureus conceived as nature autorate. We call the antecedent, Cause, and the sequent, Effect; but these are merels relative designations: the sequence itself is antecedent to some subsequent change, and the former antecedent was once only a

^{*} Introduction to Literature of Europe, iv. 246.

sequent to its cause; and so on. Cansation is change; when the change is completed, we name the result effect. It is only a matter of naming. But inciting these hange, causing it, as we say, there is some power (runse) in nature; to know this effect therefore, that is, not merely to have a relative conception of our own condition consequent on it, but to comprehend this power, this reality, to penetrate its mystery, to see it in its totality, we must know webst the effect is, and how it is; we must know its point of departure, and its point of destination; in a word, we must transcend the knowledge of phenomena, and nequire that of assessor. In a popullar sense we are said to know effects, but to be ignorant of eauses. Truly, we are ignorant of both-and equally ignorant. A knowledge of sequences we have, and of nothing more. The vital power determining those sequences we name, but cannot know, we may call it attraction, heat, electricity, polarimtion, etc.; but, having named, we have not explained it.

This is what Spinoza implicitly teaches; and had Mr. Hallam attended only to what the very next axiom preclaims, namely, that things having nothing in common with each other, cannot be understood by means of each other, i.e. the conception of one not involving the conception of the other—he would have understood Spinoza's meaning: for, if effect be different from course, then its conception does not involve the conception of cause; but if it be the same as cause, then does the one conception involve that of the other; eyes, the more complete the knowledge of the one, the more complete the knowledge of the other. The reader will bear this in mind when studying Spinoza.

We will now proceed to the

FEODPOSITIONS.

Prose. I. Substance is price in unture to its accidents.

Demonstration. Per Definitions 3 and 5.

Proc. II. Two Substances, having different Attributes, have nothing in common with each other.

Demonst. This follows from Def. 3; for each Substance must be renceived in itself and through itself; in other words, the conception of one does not involve the conception of the other.

Prose, 111. Of things which have nothing in common, one cannot be the cause of the other.*

* This follows has been one of the most influential corruptors of philosophical speculation. For usery years it was undisputed; and most naturally secure

Denous! If they have nothing in common, then (per Axiom 5) they cannot be conceived by means of each other; eye (per Axiom 4) one cannot be the cause of the other. Q. E. D.

Paor, IV. Two or more distinct things are distinguished among themselves either through the discreity of their Attributes, or through the discreity of their Modes.

Descourt. Everything which is, is in itself or in some other thing (per Axiom 1), that is (per Def. 3 and 5), there is nothing out of ourselves (extru intellection) but Substance and its Modes. There is nothing out of ourselves whereby things can be distinguished amongst one another, except Substances, or (which is the same thing, per Def. 4)* their Attributes and Modes.

Paor, V. It is impossible that there should be two or more Substances of the same nature, or of the same Attribute.

Design. If there are many different Substances, they must be distinguished by the diversity of their Attributes or of their Modes (per Prop. 4). If only by the diversity of their Attributes, it is thereby conceded that there is nevertheless only one Substance of the same Attributes; but if by the discretty of their Modes, it follows that Substance being prior in nature to its Modes, it must be considered independently of them; that is (per Def. 3 and 6), cannot be conserved as distinguished from another; that is (per Prop. 4), there cannot be many Substances, but only one Substance. Q. E. D.

Paor. VI. One Substance cannot be erested by another Substance. Denover. There cannot be two Substances with the same Attributes (per Prop. 5); i.e. (per Prop. 2), having anything in common with each other; and therefore (per Prop. 3) one cannot be the cases of the other.

* In the original, by a slip of the pen, Axiom 4 is referred to instead of Def. 4; and American has followed the error in his translation. We notice it because the reference to Axiom 4 is meaningless, and upt to passle the

stadent.

still adhere to it. See Mill's System of Logic, ii, 336-386. The assertion is that only fife can not open file. This was the assumption of Amengoras, and the groundwork of his system. If the assumption he correct, his system is true. But although it is true that file produces (comes) file, it is also as true that file produces solids: thus fire produces puts sizes applied to our bodies, explosion when applied to gaupowder, electron when applied to wood; all those effects are satisfie the came. Spinous's position is logical; those who have since applied the fallacy have not that excuse.

402 SPINOZ4:

Corollory. Hence it follows that Substance cannot be created by anything else. For there is nothing in existence except Substance and its Modes (per Axiom 1, and Def. 3 and 5); now this Substance, not being created by another, is selfcaused.

Corollary 2. This proposition is more easily to be demonstrated by the absurdity of its contradiction;—for if Substance can be created by anything else, the conception of it would depend on the conception of the cause (per Axiom 4%), and hence (per Def. 3) it would not be Substance.

PROF. VII. It pertains to the nature of Substance to exist.

Descent. Substance cannot be areated by anything rise (per Coroll.

Prop. 6), and is therefore the cause of itself; i.e. (per Def. 1)
its essence necessarily involves existence; or it pertains to the
nature of Substance to exist. Q. E. D.

Poor, VIII. All Substance is processarily infinite.

Descourf. There exists but one Substance of the same Attribute; and it must either exist as infinite or as finite. But not as finite, for (per Def. 2) as finite at must be limited by another Substance of the same nature, and in that case there would be (we Substances of the same Attribute, which (per Prop. 5) is absurd. Substance therefore is infinite. Q. E. D.

Sciolism.-I do not doubt that to all who judge confusedly of things, and are not wont to inquire into first causes, it will be diffiguit to understand the demonstration of Prop. 7, because they do not sufficiently distinguish between the modifications of Substance, and Substance itself, and are ignorant of the manney in which things are produced. Hence it follows, that seeing natural things have a commencement, they attribute a commencement to Substruces; for he who knows not the true causes of things, confermis all things, and sees no reason why trees should not talk like men; or why men should not be formed from stones as well as from seeds; or why all forms cannot be changed into all other forms. So, also, those who confound the divine nature with the human, anterally attribute human affectious to God, especially as they are ignorant how those affections are produced in the mind. But if men attended to the nature of Substance, they would not in the least doubt the truth of Prop. 7; may, this proposition would be un axiom to all, and would be numbered among common notions. For by Sub-

[&]quot; Here the potency and significance of Axiom & begins to safeld itself.

stance they would understand that which exists in itself, and is conerired through itself; i.e. the knowledge of which does not voguire the knowledge of saything antecedent to it." But by modifieation they would understand that which is in another thing, the conception of which is formed through the conception of the thing in which it is, or to which it belongs: we can therefore have correct ideas of non-existent modifications, became, although out of the understanding they have no reality, yet their essence is so compreheaded in that of another, that they can be conceived through this other. The truth of Sulstance (out of the understanding) lies nowhere but in itself, because it is conceived per se. If therefore any one says that he has a distinct and clear idea of Substance, and yet doubts whether such a Substance exist, this is as much as to say that he has a true idea, and movertheless doubts whether it be not false (as a little attention sufficiently manifests); or, if any turn affirms Substance to be created, he at the same time affirms that a true idea has become falso; then which nothing can be more aband. Hence it is necessarily confessed that the existence of Substance, as well as its essence, is an oternal truth. And hence we must conclude that there is only one Substance possessing the same Attribute; a position which requires here a fuller development. I note therefore

- That the correct definition of a thing includes and expresses nothing but the asture of the thing defined. From which it follows—
- That no definition includes or expresses a distinct number of individuals, because it expresses nothing but the nature of the thing defined; e.g. the definition of a triangle expresses no more than the nature of a triangle, and not any fixed number of triangles.
- There must necessarily be a distinct cause for the existence of every existing thing.
- 4. This cause, by reason of which anything exists, must be either contained in the nature and definition of the existing thing (via. that it pertains to its nature to exist), or else must lie beyond it—must be something different from it.

From these positions it follows, that if a certain number of individuals exist, there must necessarily be a cause why that number,

[•] The render will bear to mind the result of Demarks' philosophy, if he would fully select Spinora's meaning and the lines on which it represent Descarcios, as we saw, could inclusifying includes the but subsective. Emisteuro was the primal fact of all philosophy, self-evident and incorporable.

and not a larger or smaller number: e.y. if in the world twenty men oxist (whom, for greater perspeculty, I suppose to exist at once, no more laving previously existed), it will not be sufficient to show the season why twenty men exist, to point to human unture as the cause, but it will further be necessary to show cause why only twenty men exist, because (per note 3) a cause unst be given for the existence of exercting. This cause however (per nates 2 and 3) cannot be contained in human nature itself, became the true definition of man does not involve the number twenty. Hence, (per note 4) the cause why twenty men exist, and why each individual exists, must be beyond each of them; and therefore must we also intoly coorlade that everything, the nature of which admits of many individuals, must necessarily have an external ernse. As therefore it pertains to the nature of Substance to exist, so must its definition include a accessory existence, and consequently from its sole definition we must conclude its existence. But, as from its definition, as already shown in notes 2 and 3, it is not possible to conclude the existence of many Substances, ergo it necessarily follows that only see Substance of the same nature can exist."

Here we may passe in our translation, before we penetrate too for in this geometrical exposition of Spinesa's theology. Enough has already been given to exhibit the rigour and precision with which the consequences are deduced step by step, each proposition being evolved from those which preceded it; and he who wishes to follow the system in detail must open the Ethics for himself, abridgment being impossible. To complete our exposition of the doctrine, we shall merely state in a few sentences the principal positions —

There is but one infinite Substance, and that is God. Whetever is, is in God; and without Him, nucleig can be conceived. He is the universal Being of which all things are the manifestations. He is the sole Substance; everything else is a Mode; yet, suchost Substance, Mode cannot exist. God, viewed under the attributes of Infinite Substance, is the nature network,—viewed as a manifestation, as the Modes under which his attributes appear, he is the nature networks. He is the cause of all things, and that immaterably, but not transiently. He has two infinite attributes—Extension and Thought. Extension is visible Thought, and Thought is invisible Extension; they are the Objective and Subjective of which God is the Identity. Every thing is a mode of God's attribute of Extension; every thought, wish, or finding, a mode of his attribute of Thought. That Extension and Thought are not Substances, as

Descrites maintained, is obvious from this: that they are not conceived per se, but per edied. Something is extended what is?

Not the Extension itself, but something prior to it, viz. Substance. Substance is uncreated, but excites by the internal necessity of its nature. There may be many existing things, but only one existence; many forms, but only one Substance. God is the video conceausation—the One and All.

Such is a brief outline of the fundamental dectrine of Spinora; and now we ask the reader, can be reconcile the fact of this being a most religious philosophy, with the other fact of its having been closet universally branded with Atlaisan? Is this intelligible? Yes, three causes present themselves at once. 1. The readmoss with which that term of obloquy has been applied to opportune, from time immemorial—to Socrates as to Gottlieb Fichte—2. The obscurity of polemical vision, and the rashness of party judgment.

3. The use of the ambiguous word Substance, whereby God was confounded with the material world.

This last point is the most important, and deserves attention. To say ' God is the infinite substance,' does look, at first sight, like the atheism of the D'Holbach School; but no one could ever have read twenty pages of Spinora without perceiving this to be a misunderstanding; for he expressly teaches that God is not corporeal, but that body is a Mode of Extension.* No: God is not the material universe, but the universe is one report of his infinite Attribute of Extension: he is the identity of the natural notations and the natural substanta.*

borrane.

^{*} Dugald Scowart somewhat narrely remarks that 'in no part of Spinson's works has he approach himself an Atherst' the would have been very much accounted at the charge); 'but it will not be disputed by those who comprehend the drift of his remainings, that, in point of practical tendency, Athersa and Spinsories we see said the same.' It may be so; yet nothing our warrant the nomation of Athersa, marely because Spinsor's doctrines may have the same practical tendency as that of Athersa. Spinson did not deep the contemps of God; he denied the emisteurs of the world; he was consequently an America, not an Athersa. If the practical tendency of these two opposite systems ready is the same. Spinson could not hely it.

^{† &}quot;Natura naturans of natura naturata in identitate Done not." It must be borne to mind that identity does not (as in common mage) mean amounts, but the root from which againg two opposite steam, and in which they have a common life. Man, for instance, in the identity of smal and body, water is the identity of oxygen and hydrogen. Great mistakes are constantly being make, owing to overlocking this distinction of volgar and philosophical.

406 SPINOZA.

It is a more verbal resemblance, therefore, this, of Spinosism to Athrism; but the history of philosophy shows too many instances of verbal analogies and ambiguities becoming sources of grave error, to astonish any reader.

Next to the inesitable misapprehensions created by Spinora's use of the word Substance, we must rank among the sources of his ill repute the misapprehensions greated by his doctrine of Final Causes. Although Bacon energetically reproduted the pursuit of Final Causes -these 'harron virgins,' as he characteristically styled them-pointing out the productive error of all such pursuit; and although the advance and extension of science has gradually more and more displaced this pursuit, it is still followed by minds of splendid reach and attainment, as the surest principle of research in some departments. But although the error has the countenance of men whom we cannot speak of without respect, the fact itself that only in those departments of inquiry, wherein imperfect knowledge still permits the Metaphysical Method to exercise its percerting influence, are Final Causes are appealed to, is significant, we think, of the some of the error. While no Astronomer, no Physicist, no Chemist reasons teleplogically, there are many Biologists who proclaim teleplogy to be a louisons guide. Cavier declared that to it he owed his discoveries; Owen declares that it has often aided him. We connot here pause to discuss the validity of final causes, but the reader will probably be glad to have Spinom's remarkable analysis which he throws into an Appendix at the end of the book De Dec :-

"Men do all things for the sake of an end, namely the good, or useful, which they desire. Hence it comes that they always seek to know only the final causes of things which have taken place; and when they have heard these they are satisfied, not buring within themselves may cause for further doubt. But if they are analde to learn these final causes from some role else, nothing remains to them but to turn in upon themselves, and to reflect on the easis by which they are themselves wont to be determined to similar actions; and thus they necessarily judge of the mind of mother by their own, Further, as within thetoselves and out of themselves they discover many means which are highly conducise to the parson of their own advantage, -- for example, eyes to see with, teeth to masticate with, regetables and animals for food, the sun to give them light, the sea to neurish fish, etc., -so they come to consider all natural things us means for their benefit; and became they are aware that these things have been found, and not prepared by them, they have

been led to believe that some one else has adapted these means to their use. For after considering things in the light of assume, they could not believe these things to have made themselves, but arguing from their own practice of preparing means for their use, they must conclude that there is some ruler or rulers of nature endowed with himsen freedom, who have provided all these things for them, and have made them all for the use of men. Moreover, since they have acver heard anothing of the mind of those rulers, they must necessarily judge of this mind also by their own; and hence they have argued that the Gods direct all things for the advantage of man, in coler that they may subdue him to themselves, and he held in the highest honour by him. Hence each has devised, according to his character, a different mode of worshiping God, in order that God might love him more than others, and might direct all nature to the advantage of his blind emidity and insatiable ararice. Thus this perjudice has converted itself into superstition, and has struck deep root into men's minds; and this has been the cause why men in general have eagerly striven to explain the final causes of all things. But while they have sought to show that Nature does nothing in vain (i. e. which is not fit for the use of men), they seem to me to have shown nothing else than that Nature and the Gods are as foolish as men. And observe, I pray you, to wint a point this opinion has brought them. Together with the many useful things in Nature, they accessarily found not a few injurious things, namely tempests, earthquakes, diseases, etc.; those they supposed happened because the Gods were angry on account of offences committed against them by men, or became of faults incurred in their worship; and although experience every day protests, and shows by infinite examples that benefits and injuries happen indifferently to pious and ungodly persons, they do not therefore renounce their inveterate prejudice. For it was easier to them to class these phynoment among other things, the cause of which was unknown to them, and thus retain their present and isnate condition of ignomace, than to destroy all the falcie of their belief, and exceptions a new one."

We cannot pursue the argument further, because in the subsequent positions Spinson refers to propositions proved in the Ethics; what has been given will however suffice to show how clearly said emphatically be described the authropomorphic tendency of judging Induite by Pinnie wisdom. With it we conclude the exposition of Spinson's thredogy—one of the most extraordinary

MIS BTOXES.

efforts of speculative faculty which history has revealed to us. We have uitnessed the mathematical eigour with which it is developed; we have followed him step by step, dragged onwards by his irresistible logic; and yet the final impression left on our minds is, that the system has a logical but not a rifel truth. We shrink back from the consequences whither it so irresistibly leads us; we gaze over the abyes to the edge of which we have been dragged, and seeing ranght but chaos and despair, we refuse to build our temple there. We retrace our steps with harried carnestness, to see if no false route has been taken; we examine every one of his positions, to see if there he not some secret error, parent of all other errors. Arrived at the starting-point, we are forced to confus that we are no error—that each conclusion is but the development of anteredent positions; and yet, in spite of this, the mind refuses to accept the conclusions.

This, then, is the state of the inquirer: he sees a vast chain of reasoning corried on with the strictest rigiour. He has not been decided by rhetoric nor confused by illustrations. There has been no artful appeal to his prejudices or passions; he has been treated as a reasoning being, and has no more been able to doubt the positions, after once assenting to the definitions and exioms, than he is able to doubt the positions of Euclid. And yet we again say that the conclusions are repogued, refused; they are not the truth the inquirer has been sucking; they are no expressions of the thousandfold life, the origina of which he has been confusiousing to solve.

Unable to see where this discrepancy lies, he turns with impationer to the works of others, and seeks in criticisms and refutations an outlet from his difficulty. But—and it is a curious point in the history of philosophy—he finds that this bold and extraordinary thinker has never been refuted by any one meeting him on his own ground. Men have taken up separate propositions, and having wreached them from their connection with the whole system, have easily shown them to be quite at variance with—the systems of the refuters. This is easy work.⁸ On the other hand, the inquirer

^{*} This is the way Bayle answers Spinora, yet his answer has been protoomed by Dagald Stewart 'one of the most chlorum and assis refutations which has yet appeared.' Mr. Stewart's distike of the consequences he believed inequalitie from Symposius has here, we think, binned his judgment. Boyle's attempt at a refutation is tree profity generally countiered to be pitable. Jacobi declares Spinorum to be interested by those who simply reason on the problem. Both alone can solve it otherwise.

finds that the great metaphysicians of Germany adopt Spinoza's fundamental positions, differing with him only on points of detail or of language. In their works the consequences do not look so appalling, became they are set forth in lofty terms and ambiguous cloquence; but the difference is only verbal. Is there, then, no alternative? Must I accept Spinoza's system, repagainst as it is? Such is the inquirer's perplexity.

To release him from this perplexity will perhaps be possible, although only possible, we believe, by arguments which cut away the root of all metaphysical knowledge whatever. If Spinora is in error, the error must be issitied, for we have just admitted that it does not he in any illogical deduction. And initial the error is. The method brings it into distinctness. The application of Geometry to Metaphysics is the process most repulsive to metaphysis cams, because it lest serves to elacidate the nullity of their attempts. Geometry is purely deductive; from a few definitions and axioms the whole series of consequences is evolved. Metaphysics also is purely deductive; from a few definitions and axioms it constructs a mirerso. M. Damiron, in his very able Méssive, denies that the geometrical method can be applied to Metaphysics, because our intelligence cannot form notions so clear and necessary respecting substance, cause, time, good and evil, as respecting points, lines, and surfaces; and whenever such clear notions have been attempted it has only been by sacrificing something of the reality, by the consideration of our aspect to the exclusion of the other.* This is perfectly true if applied to metaphysicians in general; but is certainly not true as applied to Spinous, whose notions of substance, cause, etc. are not less clear than his notions of lines and surfaces. -a point we shall insist on presently. Meanwhile let us ask, soly can we not form notions of cause, substance, and the rest, equalling in cleamess our polyons of lines and surfaces? The answer to this question doors metaphysics to eternal uncertainty: It is because Geometry arrest quits the sphere of its first assumption, that its axioms retain their necessary elements, and its consequences their necessary truth. It begins with lines and surfaces, with lines and surfaces it ends; it is a purely subjective and deductive science. Its truths, when objectively applied, include as offer elements than those originally given; when from ideal lines and the relations of those lines we pass to real lines and relations, we are still strictly within

[&]quot; Missaire per Spisson, 10, 20.

410 STEROZA

the sphere of lines and their relations; and the mightiest geometry can tell us nothing whatever of any other property of substance, it is powerless before any relations except those of surfaces. If Metaphysics could thus remain within the sphere of its original assumption, it also might rival geometry in percison; but Metaphysics unhappily starts from the subjective sphere, and somediately passes on to the objective, pretending to irefuse in its circle far more than is given in the original subjective datum, pretording indeed to disclose the whole assiste of substance, cause, time, and space, and not merely certain relations among our ideas of these. When, for example, Spinson passes from his ideal distinction of cause and effect to real applications, as when he proves that God must act according to the laws of His own nature, yet without constraint, nothing determining Him save His own perfection, it is evident that by this Spinton believes the purely subjective definition he has framed expresses the whole truth of objective reality | he pretruda to know the nature of God, and to know it through the notions In has framed of cause and effect. The error here is as great, though not so potent, as if a mathematician were to deduce the rhemical preserties of a salt from the properties of right angles. Yo arlest another example, the fifth proposition, on which so much of Spinsma's system depends; "It is impossible that there should be two or more Substances of the same nature, or of the same Attribute! This is subjectively true; as true as a proposition in Euclid; that is to say, it is perfectly coherent with all that Spiness teaches of Substance and Attribute; but if we pass from his subjective circle out into the great world of reality-if we discipand his elebridise, and look only at actual substances before us-one two minerals-we then full to detect any proof of his subjective definition necessarily or even probably according with objective fact, since we precise the definition to be framed from his ideas, and not founded on objective reality.

The mathematician deduces conclusions from purely subjective distinctions, and these conclusions are found to correspond with objective fact, to searly the whole extent of what was originally assumed; namely the relations of surfaces, and no further. The metaphy scann deduces conclusions equally subjective, and it may be that such conclusions will apply to objective fact (as when it is said anothing can be said not be at the same moment), but the moment he transcends the circle of subjective distinction, as when he speaks of Cause, Time, Space, and Substance, his ideas are necessarily indistinct, because he cannot know these things; he can only frame logical conclusions respecting them, and these logical conclusions at every step need perification.

This of course the metaphysician will deny. He believes in the salidity of Reason. He maintains the perfect competence of human patellect to know and discourse on Cause, Time, Space, and Substance; but he has not the same clear argument Spinom had, on which to ground this belief. And here we are face to face with the radical assumption which constitutes the initial error and logical perfection of Spinoza's system. He holds and expressly teaches that the indirective idea is the actual image or complete expression of the objective fact, "Hoe est, id and in intellectu objective continetur debet necessario in natura dari.1 The order and connection of ideas in precisely the order and connection of things. In the Scholium to Prop. VIII, we have seen him maintaining that the correct definition of a thing expresses the nature of the thing, and nothing but its nature; which is true in one sense; for unless it express the nature of the thing the definition must be incorrect; but false in another and more important sense; for every definition we can frame only expresses our conceptions of the nature of the thing; and thus we may define the nature of the inhabitants of the moon, and adhere to our definitions with the atmost logical rigour, vet all the while be utterly removal from any real knowledge of those inhabitants. The position is logically deducible from Spinica's conception of the relation between Thought and Extension as the two Attributes of Substance; but it is a position which is emphatically contradicted by all sound psychology. Nevertheless without it Metaphysics has no basis. Unless clear ideas are to be accepted as the truths of things, and ruless every idea, which is distinctly conceived by the mind, has its ideate, or object, -metaphysicians are without plansible pretency.

Having thus signalized the fundamental position of Spinous's destrine, it is there, if anywhere, that we shall be able to show his fundamental error. On the truth or falsehood of this one assumption most Spinorism stand or fall; and we have formerly endeavoured to show that the assumption is false. Those who agree in the reasonings we additioned may escape Spinorism, but they escape it by denying the possibility of all Philosophy.

This consideration, that the mind is not a possive mirror reflecting the nature of things, but the partial creater of its own forms that in perception there is nothing but certain changes in the per-

cipient-this consideration, we say, is the destruction of the very basis of metaphysics, for it expressly teaches that the subjective idea is not the correlate of the objective fact, and only upon the belief that our ideas are the perfect and inlequate images of external things can any metaphysical speculation rost. Misled by the nature of reconserve, which draws its truths from the mind as the spider draws the web from its bosom, Descartes assumed that metaphysical truths rould be attained in the same way. This was a confusion of ngsoning, yet Spinora, Leibnitz, and their successors, followed him unhesitatingly. Somoza however had read Baccu's denouncement of this a priori Method, though evidently marropared to see the truth of the protest. It is enrious to read his criticism of Room; he looks on it as that writer's great error, to have mistaken the knowledge of the first cause and origin of things. 'On the nature of mind, he says. Baeta speaks very confuselly; and while he proves nothing, judges much. For in the first place he supposes that the human intellect, besides the deceptions of the senses, is subject to the deceptions of its own nature, and that it concrives everything according to the malogies of its own nature, and not according to the analogies of the universe; so that it is like an unequal mirror to the rays of things, which mixes the conditions of its own nature with those of external things,"

We look upon Spinora's abstraction as remarkable however, because he had also seen that in some sense the subjective was not the absolute expression of the objective; as is proved by his celebrated argument for the destruction of final causes, wherein he showed that order was a thing of the imagination, as were also right and wrong, useful and heartful—these being merely such in relation to as. Still more striking is his anticipation of Kant in this passage: —'Ex-quibus claré videre est, measurane, tempus, et numerum, nilal case practer cogitandi, seu potrils imaginandi modes;' which should have led bins to exspect that the same law of mental forms was also applicable to all other subjects.

We have pointed out the initial error, let us now refer to the lagical perfection of Spinoza's system. M. Damiron argues against the application of the geometric method on the ground of the imperfect conceptions men form of metaphraical objects; but this, as

^{* (}Nam princ) suppost used intellectes hausans, pracer fallation materin, sak selb meters fallitie, consistone fine) on analogis sur-nature, et om et malogis natures, adol ut sit instar speculi inoqualis ad radius rerum, goi man naturam nature rerum insussect. — Epoit in, Opera, p. 208.

already hinted, cannot be said of Suinoga's conceptions, they are as perfect and as clear as his conceptions of geometry; whether they are as accurate and comprehensive as they are clear, is mother question. Spinoza would maintain them to be so, and he would be justified on his principles; justified indeed on all logical principles of metaphysics. Did we not see that the perfection of Mathematics was owing to its never transcending the sphere of its first assumption, sever including other elements than those included in its definitions. and axioms? Precisely this may also be said of Spinorism; its original assumption is that every clear idea expresses the actual nature of the object; and hence whatever conclusions are logically evolved from clear ideas will be found objectively represented in the external world. Whether the mathematician works a problem in his mind with ideal surfaces, or actually juxtapeses substances and points out their relations of surface, the truths deduced are equally valid; in the same way whenever a Spinoxist works out a problem with ideal elements, he is doing no more—on his assumption—than if he had the objective elements before him, and could visibly disclose their relations. Hence the full justification of Spinom's ens. playment of the geometrical method. And his employment of it, while exciting the admiration of all posterity for the gigantic power of thought disclosed, has had the further advantage of bringing within the narrowest possible field the whole question of the possibility of Metaphysical certitude.

We must not however longer linger with this great and good man. and his works. A brave and simple man, earnestly meditating on the despest subjects that can occupy the human race, he produced a system which will ever remain as one of the most astounding efforts of abstract speculation-a system that has been decried, for nearly two centuries, us the most iniquitous and blusphemous of human invention; and which has now, within the last sixty years; become the acknowledged parent of a whole nation's philosophy, making mong its admirers some of the most pious and illustrious intellects of the age. The ribald atheist turns out, on nearer acquaintance, to be a 'God-intoxicated man.' 'The blasphemous Jew becomes a pions, vigtuous, and ereative thinker. The dissolute heretic becomes a childlike, simple, self-denying, and heroic philosopher. We look into his works with calm camestness, and read there another curious page of human history: the unjestic struggle with the mysteries of existence has failed, as it always most fail; but the struggle demands our warmest admiration, and the man our ardent sympathy. Spi414 SPINOZA

note stands out from the dim past like a tall beacon, whose shadow is thrown athwart the sea, and whose light will serve to warm the wandevers from the shoals and rocks on which hundreds of their brothern have perished.*

Since the first colition of this History there have appeared two remarkships articles by Mr. Frondo,—one on Spinson's Life in the Oxford and Combridge Review. Oct. 1947, and one on his doctrine. Westerinder Review. July, 1955. An analysis of the Tractative appeared in the Reitish Quarterly a few years ago; and a translation of the Tractative Political by William Maccall, 1994.

Bendan historians of philosophy the following writers may be consulted. Signant, Der Spinarienne historiach and philosophiach estantest; Herder, Gett, emigr Geoperade über Spinarie System; Daniron, Minoire one Spinarie et su Dietrine (in the Minoire de l'Académie).

^{*} Spinota's works here been ably edited by Prof. Paulus, and better, recently by Brader, in three valueses 12mm The edition we can is the quarte which appeared should after his death: E. D.S. Opera Posthame, 1677. A very close and literal German translation in the small valuese, by Berthold Augstock, was published in 1841. M. Emile Susset published one more puraphratic in French. We are aware of sourcely anything in English, critical or explanatory, except the account given in Mr. Hallan's Introduction to the Literatures of Energy, and the articles Spinous and Spinoism in the Propy Cyclopuble and Spinoiss's Life and Works in the Westerinster Review, May, 1843 (the three last by the present writer).

CHAPTER III.

FIRST CRISIS IN MODERN PHILOSOPHY.

THE doctrine of Spinson was of great importance, if only because it brought about the first crisis in modern Philosophy. His doctrine was so clearly stated, and so rigorously deduced from admitted premisees, that he brought Philosophy into this dilemma:—

Either my permisses are correct, and we must admit that every clear and distinct idea is also lately true; true, not only subjectively, but objectively;—If so, my system is true;

Or my premises are false; the voice of Consciousness is not the voice of truth; and if so, then is my system false, but all Philosophy is impossible; since the only ground of Cortitude—our Consciousness—is pronounced unstable, our only means of knowing the truth is pronounced fallacious.

Spinonism or Scepticism? choose between them, for you have no other choice.

Mankind refused however to make a choice. If the principles which Descartes had established could have no other result than Spinozism, it was worth while inquiring whether those principles themselves might not be modified.

The ground of discussion was shifted: psychology took the place of ontology. It was Descartes' theory of knowledge which led to Spinorism; that theory therefore must be examined: that theory henceforth becomes the great subject of discussion. Before deciding upon the merits of any system which embraced the great questions of Creation, the Drity, Immortality, etc., men saw that it was necessary to decide upon the competence of the human mind to solve such problems.

All knowledge must be obtained either through experience, or independent of experience. Knowledge dependent on experience must necessarily be merely knowledge of pheasessens. All are agreed that experience can only be experience of ourselves as modified by objects. All are agreed that to know things per se-nountria—we must know them through some other channel than experience.

Have we, or have we not, that other clannel? This is the problem.

Before we can dogmatize upon outological subjects we must settle this question:—

Can see transcend the sphere of our Courcisonness and basic things see so?

And this question further resultes itself into -Huse we ideas independent of experience?

To answer this question was the great object of succeeding philosophers. The fact that modern philosophy, until Fichte, was planet exclusively occupied with Psychology has been constantly noticed; but the reason why Psychology assumed this importance, the reason why it took the place of all the higher subjects of speculation, has not, we believe, been distinctly stated. Men have contented themselves with the fact that Psychology occupied little of the attention of antiquity, still less of the attention of the Middle Ages; and only in modern times has it been the real ground on which the routests of the schools have been carried on. Psychology was the result of a tendency similar to that which in science produced the Inductive Method. In both cases a nerossity had arisen for a new course of investigation; it had become evident that men had begun at the wrong end, and that before a proper assirer could be given to any of the questions agitated, it was necessary first to nettle the limits and conditions of inquiry, the limits and conditions of the inquiring familties. Thus Consciousness became the basis of Philosophy; to make that has bread and firm, to ascertain its nature and capacity, became the first object of speculation.

THIRD EFOCIL.

PHILOSOPHY REDUCED TO A QUESTION OF PSYCHOLOGY.

CHAPTER L

HORRES.

PERHAPS no writer except Spinous loss over been so uniformly depreciated as Hobbes. From his first appearance until the present day be has been a bye-word of contempt with the majority of writers; and even by those who have been liberal enough to acknowledge merit in an adversary, he has been treated as a dangerous and shallow thacker. The first person who saw his importance as a political thinker, and had the courage to preclaim it, was, we believe, James Mill. But as long as political and social theories continue to be judged of by their suppraced consequences, so long will Hobbes be denied a fair hearing. He has reased the offices thesitogicum. It will be long ore that will be appeared.

Faults he had, unquestionably; short-comings, incomplete views; and-as all error is dangerous in proportion to its planehilitywe will say that he was guilty of dangerous errors. Let the faults be noted, but not overstrained; the short-comings and incomplete views, inlarged and corrected; the errors calmly examined and related. We shall be gainers by it; but by inconsiderate contempt, by vilifying, no good result can be obtained. Impartial minds will always rank Hobbes amongst the greatest writers England his produced. He is profound, and he is clear; weighty, strong, and sparkling. His style, as mere style, is in its way as fine as anything in English: it has the elearness as well as the solidity and brillimey of crestal. Nor is the matter moverthy of the form. It is original, in the sense of larting been passed through the alembic of his sten brain, even when formerly the property of others. Although little of it would now appear novel, it was novel when he produced it. Haughty, dognatic, overbraring in manner, he level

418 HOURES.

Truth, and never hesitated to proclaim her. 'Harm I can do none;' be says, in the opening of the Leriethou,' though I rrr no less than they (i. e. previous writers), for I shall leave men but as they are, in doubt and dispute; but intending not to take my principle upon treat, but only to put men in mind of what they have already, or may know by their experience, I hope to crr kes; and when I do, it must proceed from too heaty reachasting, which I will endearous as much as I can to recoid."

In this passage we see Locke anticipated. It proclaims that Psychology is a science of observation; that if we would understand the conditions and operations of our minds, we must patiently look inwards and see what passes there. All the reasoning and subtle disputation in the world will not advance us one step, unless we first get a firm basis on fact. 'Man, he says clearbers, with his usual consticity, 'has the exclusive privilege of forming general theorems. But this privilege is allowed by another, that is, by the privilege of abstratity, to which no living exercise is subject but mm only. And of men those are of all most subject to it, that profess Philosophy." And the came of this large endowment of the privilege to Philosoplace we may real in mother passage, where he attributes the difficulty men have in receiving Truth, to their minds being prepossecond by false opinions—they having are judged the question. The passage is as follows: - When men have once acquireseed in matrix opinious, and registered them as authenticated records in their minds, it is no less impossible to speak intelligibly to such men than to write legibly on a paper already seribbled over."

Hobber's position in the History of Philosophy is maily assigned, On the question of the origin of our knowledge he takes a decided stand upon Experience: he is the precursor of modern Materialism:—

*Concerning the thoughts of man I will consider them first singly, and afterwards in a train or dependence upon one another. Singly they are every one a representation or appearance of some quality or other accident of a body without us, which is commonly called an object. Which object worketh on the eyes, cars, and other parts of a man's body; and by diversity of working, produceth diversity of appearances.

'The original of them all is that which we call Sease, for there is no conception in a man's mind which liath not at first, totally or

^{*} Weeks, edited by Sir W. Malesworth, in L.

by parts, been begotten upon the organs of sense. The rest are derived from that original.'*

We have here stated, in the broadest manner, the principle of Materialism. It is in direct antagonism to the doctrine of Descartes that there are innate ideas; in direct antagonism to the old doctrine of the spirituality of Mind. Theoretically this principle may be insignificant; historically it is important.

Hobbes's language is plain enough, but we will still further quote from him, to obviate any doubt as to his meaning.

, 'According to the two principal parts of man, I divide his faculties into two sorts—faculties of the dudy, and faculties of the saind,

'Since the minute and distinct anniony of the powers of the body is nothing recessary to the present purpose, I will only sum them up in these three heads,—power estrictive, power generative, and power societ.

'Of the powers of the mind there be two sorts—cognitive, imagination, or conceptive and motive.

'For the understanding of what I mean by the power esquitive, we must remember and acknowledge that there be in our mindscontinually certain isoages or conceptions of the things without us. This imagery and representation of the qualities of the things without, is that which we call our conception, imagination, idear, natice, or knowledge of them; and the faculty, or power by which we are capable of such knowledge, is that I here call cognitive power, or conceptive, the power of knowing or conceiving."

The mind is thus wholly constructed out of some. Nor must we be decrived by the words faculty and power, as if they meant any activity of the mind—as if they implied that the mind co-operated with sense. The last sentence of the foregoing passage is sufficient to clear up this point. He elsewhere says:—'All the qualities called sensible are, in the object that conseth them, but so many averal motions of the matter by which it presents on our organs diversely. Neither in an that are present are they maything elsebut divers motions; for motion produceth authing but motion.'

Hobbes, therefore, and not Locke, is the percursor of that school of Psychology which flourished in the eighteenth century (principally in France), and which made every operation of the mind pro-

^{*} Locartime, ch. i. In the following experition we shall sometimes eith from the Levistian and sunctions from the Human Notice. This general reference will enable in to Superso with iterated fest-notes.

420 HORBES.

cond out of transformed remations: which ended, logically enough, in soying that to think is to feel—power c'est sentir.

It is to Hobbes that the ment is due of a discovery which, though so familiar to us now us to appear self-evident, was yet in truth a most important discovery, and was adopted by Descartes in his Meditations*—it is that our sensations do not correspond with any external qualities; that what are called sensible qualities are nothing but modifications of the sentient being:—

'Became the image in vision, consisting of colour and shape, is the knowledge we have of the qualities of the object of that sense; it is no hard matter for a man to full into this opinion that the same colour and shape are the very qualities themselves; and for the same cause that sound and soise are the qualities of the bell or of the air. And this opinion both been so long received that the contrary must needs appear a great paradox; and yet the introduction of species visible and intelligible (which is necessary for the maintenance of that opinion) passing to and fro from the object is noise than any paradox, as being a plain impossibility. I shall therefore embesseour to make plain these points:

'That the subject wherein colour and image are inherent, is not the object or thing seen.

That there is nothing without us (really) which we call us image or colour.

'That the said image or colour is but an apporition unto us of the sustion, apitation, or afternion which the object morbith is the brain, or spirits, or some internal substance of the head.

"That as in vision, so also in conceptions that arise from the other senses, the subject of their inference is not the object, but the scutient."

This important principle, which Carucales among the ancients alone seems to lave suspected, Hobbes has very clearly and conclusively illustrated.

Sense furnishes us with conceptions; but us there are other operations of the mind besides the conceptive, it remains to be seen how sense can also be the original of them.

And first, of Insegisation. Mr. Hallam has noticed the scattness and originality which often characterize Hobbes's remarks;

Descrites may possibly have discovered it for himself, but the priority
of publication is at any rate due to Hobbes—a fact that noticed, we believe,
by Mr. Hallan: Literature of Europe, in 271.

nomues: 421

and he instances the opening of the chapter on Imagination in the Leristhan. It is worth quoting :- That when a thing lies still, unless somewhat else stir it, it will lie still for ever, is a truth no one doubts of. But that when a thing is in motion it will eternally be in motion, miless wenewhat else stay it, though the reason be the same, namely that nothing can change itself, is not so rasily assented to. For men measure not only other men but all other things by themselves; and, because they find themselves subject after motion to pain and lassitude, think everything else grows weary of motion and seeks repose of its own accord; little considering whether it be not some other motion wherein that desire of rest, they find in themselves, consisteth." Imagination Hobbes defines as a 'conception remaining and by little and little domying from and after the set of sense," . . . 'Imagination, therefore, is but seconing sease.' The reader must not here understand by imagination morthing more than the retaining of an awaye of the object, after the object is removed. It is the term used by Hobbes to express what James Mill happily called Idention. Sense, Sensation; ideas, Ideation. Hobbes says, sense, Sensation; images, Imaginatices.

The materialism of Hobbes's theory does not consist merely in his language (as is the case with some philosophers; Locke, for instance); it lies at the very root of the theory. Thus, he says, we have sensations and we have images—idens. Whence those images? When a body is once in motion it moveth, unless something hinder it, stomally; and whotsoever hindereth it, cannot in an instant, but in time and by degrees, quite extinguish it; and as we see in the water, though the wind cease, the wares give not over rolling for a long time after; so also it happeneth in that section which is made in the internal parts of mun; then, when he sees, dresms, etc. For after the object is removed, or the eye shut, we still retain an image of the thing seen, though more obscure than when we see it. . . . The decay of sense in men waking is not the decay of the motion made in sense, but an obscuring of it, in such manner as the light of the sun obscureth the light of the stars; which stars do no less exercise their virtue, by which they are visible, in the day than in the night. But because amongst many strokes which our eyes, cars, and other organs receive from external bodies, the perdominant only is sensible; therefore the light of the sun being predominant, we are not affected with the action of the stars." This illustration is very happy; but it only serves to bring

£22 BOBBES.

out into stronger relief the materialism of the theory. He has told us what Imagination is; let us now learn what is Memory. 'This deenving sense, when we would express the thing stself, I mean fracy itself, we call impointation, as I have said before; but when we would express the decay, and signify that the sense is fading old, and past, it is called memory. So that imagination and memory are but one thing, which for divers considerations both divers names.' Mr. Hallam objects to this, and save that it is very evident that imagination and memory are distinguished by something more than their names. Truly, by us; but not by Hobbes; he evidently uses the word imagination in a more generical seme than we use it : he means by it Ideation. Thus he calls dreams "the imagination of them that sleep.' It is that state of the mind which remains when the objects which agitated it by sensatious are pomoved; the mind is then not so agitated, but neither is it calm; and he compares that state to the gentle rolling of the waves after the wind both ceased.

Let this be distinctly borne in mind: Hobbes sees nothing in the intellect but what was previously in the sense. Sensations, and the traces which they leave (i.e. images), form the simple elements of all knowledge; the various commextures of these elements form the various intellectual faculties. We may now open at the third chapter of the Levisthess. In it he proposaled, as something quite simple and obvious, the very important law of association of ideas.* He states it with great clearness and thorough mastery, though he evidently was quite massure of its extensive application.

When a man thinketh,' be says,' on soything whatsoever, his next thought after is not altogether so casual as it seems to be. Not every thought to every thought succeeds indifferently. But as we have no imagination whereof we have not formerly had sense in whole or in parts, so we have no transition from one imagination to another whereof we never had the like before in our senses. The reason whereof is this: all funcies (i.e. images) are usalous within as, reliets of those made in sense; and these motions that numediately succeed one another in the sense continue also together after the sense; insometh as the former coming again to take place and be prodominant, the latter followeth by coherence of the matter

^{*} See Ser W. Hamilton's Discretation affixed to Books Words, p. 800, for a history of this low of acceptation.

HOHERS. 623

moved, in such manner as water upon a plain table is drawn which way any our part of it is guided by the finger."

The materialism here is distinct votogh. He continues, in exectbut style - This train of thoughts, or mental discourse, is of two sorts. The first is unguided, without design, and inconstant, wherein there is no passionate thought to govern and direct those that follow to itself, as the end and scope of some desire or other passion; in which case the thoughts are said to wanter, and seem impertinent one to another as in a dream. Such are commonly the thoughts of men that are not only without company, but also without care of anything; though even then their thoughts are as husy as at other times, but without harmony; as the sound which a late out of tune would yield to any man; or in tune, to one that could not play. And yet in this wild ranging of the mind, a manmay ofttimes perceive the way of it, and the dependence of one thought upon mother. For in a discourse of our persent civil war, what would seem more importinent than to ask, as one did, what was the value of a Roman permy? Yet the coherence to me was manifest enough. For the thought of the war introduced the thought of delivering up the King to his openies; the thought of that brought in the thought of the delivering up of Christ; and that again the thought of the thirty pener, which was the grice of that treason; and thence easily followed that malicious question, and all this in a moment of time; for thought is quick."

"For thought is quick." This is the sample pregnant comment, justly deemed sufficient. It is no purpose of this history to dwell upon literary merits; "but the style," as Buffon says, "is the man," and occasionally we are forced to notice it. The plain direct remark with which Hobbes concludes the above passage would, in the hands of many moderns, have run somewhat thus:—"How wonderful is thought! how mighty! how mysterious! In its lightning

^{*} I leave this passage as it originally stood, for the sake of correcting a universal error. I have since detected it to be an error by the simple process of reading Buffer's actual words, which some French writer integrated from memory, and which there and have repeated without mingiring, although the phrase is an abstractly. The phrase occurs in Buffer's Discours de Bireprina à F. Leaslewin, where speaking of style in that alone capitals of conferring immeriably on works, because the matter was proposed by proceeding ages, and must some become occurson property, whereas style remains a past of the man birewist; he adds, "On classes and have de Férence," in style out de Férence solow. There is immense difference between mying be style o'air Planence, and h style out de Férence.

424 MOBBES.

speed it trustress all space, and makes the past persent? Hobbes, with a few simple direct words, produces a greater impression than would all the aveiling pemp of a passage bristling with notes of exchanation. This is the secret of his style. It is also the characteristic of his speculations. Whatever faults they may have, they have no vagneness, no pretended profundity. As much of the truth as he has clearly seen he clearly exhibits: what he has not seen he does not pretend to see.

One important deduction from his principles he has drawn: 'Whatsoever we imagine is finite. Therefore there is no idea, no conception of anything we call infinite. No man can have in his mind an image of infinite magnitude, nor conceive infinite swiftness, infinite time, or infinite power. When we say that anything is infinite, we signify only that we are not able to conceive the ends and bounds of the thing named, having no conception of the thing, but of our own inability. And therefore the name of God is used not to make us conceive him, for he is incomprehensible, and his greatness and power are inconceivable, but that we may beneath him. Also because whatsoever we conceive has been perceived first by sense, either all at once or by parts, a name can have so thought representing anything and maject to Sense.'

This is frank, but is it true? On Hobben's principles it is irresistible. His error lies in assuming that all our thoughts must be issages. So far is this from being true, that not even all our exsations are capable of forming images. What images are given by the sensations of heat or cold, of music, or of trate?

Every man's consciousness will assure him that thoughts are not always images. It will also assure him that he has the idea, notion, conception, figurest (or whatever name he may give the thought) of Infinity. If he attempts to form an image of it, that image will of course be finite: it would not otherwise be an image. But he can think of it; he can reason of it. It is a thought. It is in his mind; though how it got there may be a question. The incompleteness of Hobbes's psychology lies in the inability to assure this question. If the maxim he adopts be true, nibil set in intellects question itself in a practical refutation of the maxim.

We insist upon Hobbes's materialism, the better to prepare the reader for a correct appreciation of Locke: one of the most misrepresented of plain writers. Hobbes, in the sixth chapter of his Husson Networ, has very carefully defined what he means by knowHORBES. 425

ledge. 'There is a story somewhere,' he says, 'of one that pretends to have been mirrenlously cured of blindness, wherewith he was hern, by St. Alban or other saints, at the town of St. Alban's; and that the Dake of Gloucester being there, to be satisfied of the truth of the miracle, asked the man, What colour is this? who, by unswering it was green, discovered himself, and was punished for a counterfeit: for though by his sight newly received he might distinguish between green and red and all other colours, as well as any that should interrogate him, yet be could not possibly know at first sight which of them was called green, or red, or by any other name.

"By this we may understand there be two kinds of knowledge, whereof the one is nothing else but sense, or knowledge original, and resembrance of the same; the other is called science, or knowledge of the truth of propositions, and how things are called, and is derived from understanding. Both of these sorts are but experience; the former being the experience of the effects of things that work upon as from without; and the latter experience men have from the proper use of answer in language; and all experience being, as I have said, but remembrance, all knowledge is remembrance."

The only ambiguity possible in the above passage is that which might arise from the use of the word understanding. This he elsewhere defines as follows:—

'When a man upon the hearing of any speech bath those thoughts which the words of that speech in their connection were ordained and constituted to signify, then he is said to understand it; weder-almobia, being nothing else but conception formed by speech.'

We must content conscives with secrely alluding to his admirable observations on language, and with quoting, for the hundredth time, his weighty aphoram, 'Words are wise men's counters; they do but reckon by them; but they are the money of fools.'

No attempt is here made to do full justice to Hobbes; no notice can be taken of the speculations which made him famous. Our object has been fulfilled if we have made clear to the reader the position Hobbes occupies in modern psychological speculation.

CHAPTER II.

LOCKE.

& L Larg of Locke.

JOHN LOCKE, one of the wisest of Englishmen, was born at Urington in Somersetshire, on the 29th of August, 1632. Little is known of his family, except that his father had served in the Parliamentary wars; a fact not without significance in connection with the steady love of liberty manifested by the son.

His education began at Westminster, where he staved till be was nineteen or twenty. He was then sent to Oxford. That University was distinguished then, as it has ever been, by its attachment to whatever is old; the Past is its model; the Past has its affection. That there is much good in this veneration for the Past, for will gainsay. Nevertheless, a University which viqued itself on being behind the age, was scarcely the fit place for an original thinker. Locke was ill at ease there. The Philosophy uphald these was Scholasticism. On such food a mind like his could not pourish itself. Like his great predecessor Baron, he imhibed a profound contempt for the University studies, and in after-life regretted that so much of his time should have been wasted on such profities pursuits. So deeply consinced was he of the cicious method of college education, that he can into the other extreme, and thought self-education the best. There is a mixture of truth and error in this notion. It is true that all great men have been mainly self-target; all that is most calculate a man must learn for houself, must work out for himself. The error of Locke's position is the assumption that all men will educate themselves if left to themselves. The fart is, the majority have to be educated by force. For those who, if left to themselves, would never educate themselves, colleges and schools are indispensable.

Locke's notion of an educated man is very characteristic of kirs. Writing to Lord Peterburough, he says, 'Your Lordship would have your son's tutor a thorough scholar, and I think it not much matter whether he be any scholar or no : if he but understand Lutin well.

and have a general scheme of the sciences, I think that enough. But I would have him will-bred and well-tempered.'

Disgusted with the disputes which usurped the title of Philosophy, Locke principally devoted himself to Medicine while at Oxford. His profesency is attested by two very different persons, and
in two very different ways. Dr. Sydenham, in the Dedication of
his Observations on the History and Care of Acute Discuss,
beasts of the approbation bestowed on his Method by Mr. John
Locke, 'who examined it to the bottom; and who, if we consider
his genius and penetrating and exact judgment, has scarce any
superior, and few equals now living.' The second testimony is that
afforded by Lord Shaftesbury, when Locke first met him. The
Earl was suffering from an abscess in the chest. No one could
discover the nature of his disorder. Locke at once divined it. The
Earl followed his advice, submitted to an operation, and was saved.
A close intimacy sprang up between them. Locke accompanied
him to London, and resided principally in his house.

His attention was these turned to politics. His visits to Holland delighted him. 'The blessings which the people there enjoyed under a government pseuliarly favourable to civil and religious liberty, unaply compensated, in his view, for what their unavviting territory wanted in scenery and climate.'* He also visited France and Germany, making the acquaintance of several distinguished into.

In 1670 he planned his Essay concerning Hussin Understanding. This he did not complete till 1687. In 1675 the delicate state of his health obliged him to travel, and he required to the south of France, where he met Lord Pembroke. To him the Essay is delicated. He returned in 1679, and resumed his studies at Oxford. But his friendship for Shaftesbury, and the liberal opinions he was known to hold, drew upon him the displeasure of the Court. He was deprived of his studentship by a very arbitrary act.† Nor did persecution stop there. He was soon forced to quit England, and find refuge at the Hagne: There also the anger of the King pursued him, and he was obliged to retreat further into Helland. It was there he published his celebrated Letter on Teleration.

He did not remm to England till after the Revolution. Then there was scennity and welcome. He was pressed to accept a high

^{*} Dagald Stewart.

⁴ See Maranlay, History of England, s. 545-st.

428 LOCKE.

diplomatic office in Germany, but the state of his health prevented him. In 1690 the first edition of his Energ appeared. He had unfeed already (1688) published as abridgment of it in Lecler's Bibliothèque Universalle. The success of this Energ was immense, and Warburton's assertion to the contrary falls to the ground on the more statement of the number of editions which the week rapidly went through. Six editions within fourteen years, and in times when books sold more slowly than they sell now, is cridence enough.

The publication of his Essey roused great opposition. He soon got involved in the discussions with Stillingflort, Rishop at Worcester. He was soon after engaged in the political discussion of the day, and published his Treatise on Government. It was about this time that he became acquainted with Sir Isaac Newton; and a portion of their very interesting correspondence has been given by Lord King in his Life of Lorde.

Locke's health, though always delicate, had not been disturbed by any improducers, so that he reached the age of screenty-two—a good ripe age for one who had studied and thought. He expired in the arms of his friend, Ludy Masham, on the 28th of October, 1704.

5 IL ON THE SPIRIT OF LOCKE'S WHITEVAL

It has for many years been the fishion to decay Locke. Indirect success at his 'superficiality' abound in the writings of those who, became their thought is so muddy that they cannot see its shallow bottom, fancy they are profound. Locke's 'materialism' is also a favourite subject of confolence with these writers; and they assert that his principles 'lead to atheism.' Lock whom?

Another mode of undervaluing Locke is to assert that he only borrowed and popularized the ideas originated by Hobbes. The late Mr. Hashit—an neute thinker, and a metaphysician, but a wilful reckless writer—deliberately asserted that Locke owed everything to Hobbes. Dr. Whewell repeats the charge, though in a

^{*} The writer of the article Looks, in the Ency. Brief, says that the fourth edition appeared in 1700. Victor Causin repeats the statement, and adds that a fifth edition was preparing when death overfook the scaling; this fifth obtion appearing in 1700. We know not on what entirely these writers space that that they are in error may be seen by turning to Looke's Epidde to the Render, the last paragraph of which incomes that the edition then benefity Looke luminal in the south.

more qualified manner. He says," Hobbes had already promulgated the main doctrines, which Locke afterwards arged, on the subject of the origin and nature of our knowledge."

Again, 'Locke owed his authority mainly to the intellectual ciremistances of the time. Although a writer of great merit, he by no means possesses such metaphysical acuteness, or such philosophical largeness of view, or such a charm of writing, as to give him the high place he has held in the literature of Europe.'

That Locke did not borrow his ideas from Hobbes will be very apparent in our exposition of Locke; but meanwhile we may quote the testimony of Sir James Mackintosh, one of the best read of our philosophers, and one intimately acquainted with both these thinkers:—

"Locke and Hobbes agree chiefly on those points in which, except the Cartesians, all the speculators of their age were agreed. They differ on the roost momentous questions—the sources of knowledge, the power of abstraction, the nature of the will; on the two last of which subjects, Locke, by his very failures themselves, evinces a strong repagnance to the doctrine of Hobbes. They differ not only in their premisses and many of their conclusions, but in their manner of philosophung itself. Locke had no prejudice which could lead him to imbibe doctrines from the enemy of liberty and religion. His style, with all its faults, is that of a non-who thinks for himself; and an original style is not usually the vehicle of borrowed opinions."

To this passage we will add another from a still more distinguished indge:—

'Few among the great names in philosophy have met with a harder measure of justice from the present generation than Locke, the unquestioned founder of the analytic philosophy of mind, but whose doctrines were first concentured, then, when the reaction arrived, east off by the prevailing school even with containely, and who is now regarded by one of the conflicting parties in philosophy as an apostle of heresy and sophistry; while among those who still adhere to the standard which he raised, there has been a disposition in later times to sarrive his reputation in favour of Hobbes—a great writer and a great thanker for his time, but inferior to Locke not only in suber judgment, but even in profundity and original genus. Locke, the most could of philosophers, and one whose

^{*} Edittered Revice for October, 1821, p. 242

430 LOCKE.

speculations bear on every subject the strongest mark of having been wrought out from the materials of his own mind, has been mistaken for an unworthy plagiarist, while Hobbes has been extelled as having anticipated many of his leading doctrines. He did not anticipate many of them, and the present is an instance in what manner it was generally done. [The writer is speaking of Locke's refutation of fluences.] They both rejected the scholastic doctrine of Essences, but Locke understood and explained what these supposed essences were. Hobbes, instead of explaining the distinction between essential and necidental properties, and between essential and accidental propositions, jumped over it, and gave a definition which suits, at most, only essential propositions, and scarcely those, as the definition of Proposition in general."

Dugald Stewart indeed says 'that it must appear evident Locke had diligently studied the writings of Hobbes;' but Sir J. Mackintosh, as quoted above, has explained why Locke appears to have studied Hobbes; and Stewart is far from implying that Locke therefore gained his principal ideas from Hobbes. Indeed he has an admirable note in which he points out how completely Locke's own was the important principle of Reflection. 'This was not merely a step beyond Hobbes, but the correction of an error which lies at the very root of Hobbes's system.'?

That Locks never read Hobbes may seem incredible, but is, we are engyineed, the truth. It is one among many examples of how for were the books he had read. He never alludes to Hobbes in any way that can be interpreted into having read him. Twice only, we believe, does he allude to him, and then so distantly, and with such impropriety, as to be almost convincing with respect to his ignorance. The first time is in his Reply to the Bishop of Warrester, in which he abourdly classes Holdes and Spinoza together. He says, "I an not so well read in Hobbes and Spinora as to be able to say what were their opinions on this matter, but possibly there be those who will think your Lordship's authority of more use than Moor justlydecried evitors.' The form of expression, 'I am not so well read,' ene, is obviously equivalent to-I have never read those justly-decried writers. His second allusion is simply this :- "A Hobbist would probably say." We cannot at present by our hands on the passage, but it refers to some moral question.

* Mil's System of Louis, is 130.

[†] Dissertation in the Progress of Miringal, Philosophy, p. 235 (Hamilton's ed.). The note is very imp and currons.

The above is only negative cridence. Something like positive cridence borrows is the fact that Hobbes's doctrine of Association of Ideas—a principle as simple of apprehension as it is important—was completely unknown to Locke, who, in the fourth or fifth edition, added the chapter on Association as it now stands. Moreover, Locke's statement of the law is by no means so satisfactory as that by Hobbes; he had not so thereughly mastered it; yet, had be read it in Hobbes, he would assuredly have improved on it. That he fild not at first introduce it into his work is a strong presumption that he had not then read Hobbes, because the law is so simple and so evident, when stated, that it must produce instantaneous conviction.

It is strange that any mm should have read Locke, and questioned his originality. There is scarcely a writer we could name whose works bear such an indisputable impress of his laying 'raised himself above the almehasket, and not content to live larily on scraps of begged opinious, set his own thoughts to work to find and follow truth." It is still more strange that any man should have read Locke and questioned his power. That patient segucity which, above all things, distinguishes a philosopher, is more remarkable in Locke than almost my writer. He was also largely endowed with good sense; a quality, Gibbon remarks, which is more than genius. In these two qualities, and in his homely racy masculine style, we see the type of the English mind, when at its best. The plain directness of his manner, his carnestness without functicism, his hearty honest lave of truth, and the douth and pertinence of his thoughts, are qualities which, though they do not decale the reader, get win his lose and respect. In that volume, you have the honest thoughts of a great honest Englishman. It is the product of a mandy mind clear, trathful, direct. No vague formulas-no rhetorical flights-no base flattery of base prejudices-no assumption of oracular wisdom-no word-jugglery. There are so many writers who cover their ranity with a veil of words, who seem profound because they are obscure, that a plainness like Locke's decrives the carcless render, who is led to suppose that what is there so plain must have been obvious.

Locks, though a patient, cautions thinker, was anything but a timid thinker; and it does great honour to his sagacity, that at a time when all scientific men were exchanging against the danger of hypotheses, believing that the extravagant errors of Schoolmen and alchemists were owing to their use of hypotheses—a time when 432 LOCKE

the great Newton himself could be led into the unphilosophical benet hypotheses was flago, our wise Locke should exactly appreciate them at their true value. He says,—

Not that we may not, to explain any phenomena of nature, make ase of my probable hypotheses whatsoever. Hypotheses, if they are well made, are at least great helps to memory, and often direct us to new discoveries. But we should not take them up too hastly (which the mind that would always penetrate into the causes of things, and have principles to rest on, is very apt to do! till we have very well commined partierdars, and mode several experiments in that thing which we would explain by our hypothesis, and see whether it will agree to them all; whether our principles will carry as quite through, and not be as inconsistent with one phenomenon of nature as they seem to accommodate and explain another; and, at least, that we take core that the name of principles deceive us not nor impose on us, by making us receive that for an unquestionable truth which is really at best but a very doubtful conjecture; such as are most (I had almost said all) of the hypotheses in natural philosophy.

Locke did not seek to damle; he sought Truth, and wished all men to accompany lain in the search. He would exchange his comions with case when he fancied that he now their error. He readily retracted ideas which he had published in an immature form; 'thinking himself,' as he says, 'more concerned to quit and renounce any opinion of my own than oppose that of another, when truth appears against it.' He had a just and incurable respicion of all 'great volumes swellen with ambiguous words.' He knew how much jugglery goes on with words; some of it conscious, write of it meonscious, but all pernicious. 'Vague and insignificant forus of speech and abuse of language have for so long passed for mysteries of science; and hard and misapplied words, with little or no meaning, have, by perscription, such a right to be mistaken for deep learning and height of speculation, that it will not be case to persuade either those who speak, or those who bear them, that they are but the covers of ignorance and hindrance of true knowledge. To break in upon this sanctuary of vanity and ignorance will be, I suppose, some service to the leanan understanding."

Locks had an analytical mind. He desired to understand and to explain things, not to write theoretically about them. There were mysteries enough which he was contented to let alone; he knew that human faculties were limited, and reverentially submitted to ignorance on all things beyond his reach. But though he bawed down before that which was essentially mysterious, he was anxious not to allow that which was essentially cognizable to be enveloped in mystery. Let that which is a mystery remain undisturbed: let that which is not necessarily a mystery be brought into the light of day. Know the limits of your understanding—beyond those limits it is madness to attempt to penetrate; sithis those limits it is folly to let in darkness and mystery, to be increasintly wondering and always assuming that matters cannot be so plain as they appear, and that something lying deeper courts our attention.

To minds otherwise constituted—to men who love to swell in the vague regions of speculation, and are only at ease in an inteltectual twilight—Locke is naturally a disagreeable teacher. He flatters none of their prejudices: he falls in with none of their tendencies. Mistaking obsentity for depth, they access him of being superficial. The owls declare the eagle is blind. They want the twilight; he

"Wantom in the smile of Jore."

They sucer at his 'shallowness.' So frequent are the sucers and off-hand charges against him, that I, who had read him in my youth with delight, began to suspect that my admiration had been rash. The properb says. 'Throw but need enough, some will be sure to stick.' It was so with Locke. Reiterated depreciation had somewhat deficed his image in my mind. The time came however when, for the purposes of this history, I had to read the Essay on However Understanting over more, eartfully, pen in hand. The image of John Locke was again revived within me; this time is more than its former splendsor. His modesty, honesty, truthfolness, and directuess I had never doubted; but now the vigour and originality of his mind, the raciness of his colloquial style, the patient analysis by which he has laid open to us such vast tracts of thought, and above all, the manliness of his truly practical understanding, are so strongly impressed upon me, that I feel satisfied the best answer to his critics is to say, "Rend kim." From communion with such a mind as his, nothing but good can result. He suggests as much no he teaches; and it has been well said, "that we cannot speak of his Essay without the despest reverence; whether we consider the era which it constitutes in philosophy, the intrinsic value (even at the present day) of its thoughts, or the noble devotion to truth, the beautiful and touching currestness and simplicity which he not only

134 LOCKIE

munifests in himself, but has the power, beyond almost any writer, of infusing into his reader."

§ HL Locke's Microon.

"It may be said that Locke ercental the trience of Metaphysics,"
sees D'Alembert, "in somewhat the same way as Newton ereated
Physics.... To understand the sood, its ideas and its affections,
bu did not study backs; they would have modificated him; be was
contemptated bimself a long while, and after having, so to speak,
contemptated himself a long while, he presented in his Essay the
mirror in which he had seen himself. In one word, he reduced
Metaphysics to that which it ought to be, viz. the experimental
physics of the mind."

This is great proise, and from high authority, but we suspect that it can only be received with some qualification. Locke made no grand discovery which changed the face of science. He was not even the first to turn his glauce inwards. Descartes and Hobbes had been before him.

Vet Looke had his Method; a Method possitively his own.
Others before him had cost a hasty glance inwards, and dogmatized upon what they saw. He was the first to watch patiently the
operations of his mind, that, natching, he might surprise the reanescent thoughts, and steal from them the secret of their continations. He is the founder of Modern Psychology. By him the
questions of Philosophy are heldly and securifically reduced to the
primary question of the limits of human understanding. By him
is began the Andrew of the development and combination of our
thoughts. Others had contented themselves with the thoughts is
they found them: Locke redulency inquired into the origin of
all our thoughts.

M. Victor Consin, who, as a rhetorician, is in constant untagonism to the clear and analytical Locke, makes it an especial gricuance that Locke and his school have considered the question respecting the origin of ideas as fundamental. 'It is from Locke,' he continues, 'that has been borrowed the custom of referring to savages and children, upon whom observation is so difficult; for the one class we must trust to the reports of travellers, often prejudiced

Re un met, il réclaire la settiplicarque le ce qu'elle den core, en effet, il phicaque expérimentale de l'âme."—Dirence Préfére de l'Engelogiéte.

and ignorant of the language of the country visited; for the other class (children), we are reduced to very equivocal signs."

We cannot see how Locke should avoid referring to savages and children, if he wanted to collect facts concerning the origin of ideas; it is a practice inseparable from the psychological Method. Perhaps no source of error has been more abundant than the obstinacy with which men have in all times tooked upon their infissoluble associations as irresistible truths—as primary and universal truths. A little analysis-a little observation of minds removed from the inflarners which festered these associations, would prove that these associations were not universal truths, but amply associations. It is because men have analyzed the mind in its cultivated condition, that they have been led to false results; had they compared their analysis with that of an uncultivated mind, they might have gained some insight. The objection against Locke's practice could only proceed from men who study psychology without previous acquaintmee with physiology-which, though they do not know it, is the some as studying functions without any knowledge of the organs. Locke was the first who systematically sought in the history of the development of the mind for answers to many of the fundamental questions of psychology, and he has been blamed for this, in the some spirit as that which distated the success of John Hunter's professional contemporaries, because that admirable anatomist sought in comparative anatomy for elocidation of many anatomical probleus. Negaliers no well-informed student is ignorant of the fact that Comparative Physiology, and Embryology, are our surest guides in all biological questions, rimply because we therein see the pre-Hems gradually removed from many of the complenities which frustrate our research in the higher and more completely developed organisms. Locke saw clearly enough that the philosophers were accontained to consider their minds as types of the human mind; whereas their minds, being filled with false notions and warped by projudices, could in nowise be taken as types; for even greating that the uniority of their intions were free, yet these true notions were not portions of the furniture of universal minds. He sought for illustrations from such minds as had not been so warped.

His object was 'to inquire into the original, overhisty, and extest of human knowledge.' He was led to this by a conversation with some friends, in which, disputes growing warm, 'after we had 436 LOCKE.

puzzled ourselves swhile, without coming any nearer a resolution of those doubts which perplicated us, it came into my thoughts that we took a arrang course; and that before we set musuless upon inquiries of that nature, it was necessary to examine our own abilities, and see what objects our understandings were or ever not filted to deal with."

The plan he himself laid down is as follows:-

'First, I shall imprire into the original of those ideas, notions, or whatever else you please to call them, which a man observes and in consessus to himself be has in his mind; and the ways whereby the understanding comes to be furnished with them.

'Secondly, I shall endowour to show what knowledge the understanding both by those ideas; and the certainty, evidence, and extent of it.

'Thirdly, I shall make some inquiry into the nature and grounds of faith or opinion; whereby I mean that assent which we give to any proposition as true, of whose truth we have yet no certain knowledge; and we shall have occasion to carmine the reasons and degrees of assent.'

We may here use decisively settled the question so often raised respecting the importance of Lucke's Inquiry into Innate Ideas. 'For Locke and his school,' says M. Cousin, justly, 'the study of understanding is the study of Ideas; house the recent celebrated name of Idealogy for the designation of the science of mind.' Indeed, as we have shown, the origin of Ideas was the most important of all questions; upon it rested the whole problem of Philosophy.

According to the origin of our lideas may we assign to them their validity. If they are of human growth and development, they will necessarily purtake of human limitations. As Pascal well says, 'Si Photonic commençuit par s'étudier lini-même, il verroit combins il est incapable de passer outre. Comment pourroit-il se faire qu'une portie countit le tout?'

Locke has given us a few indications of the state of opinion respecting Innate Ideas, which it is worth while collecting. 'I have been told that a short epitome of this treatise, which was printed in 1688, was condemned by some without reading, because insate ideas were desired in it, they too hastily concluding that if imate ideas were not supposed there would be little left citize of the notion or proof of spirits' Recapitulating the contents of the chapter devoted to the refutation of innate ideas, he says, 'I know not how abound this may seem to the masters of demonstration. and probably it said hardly does with anybody at first horrisy.'

And elsewhere: What consure doubting thus of innute principles
may deserve from mru, who will be upt to call it pulling up the
self foundations of knowledge and certainty, I cannot tell; I perserate myself at least that the way I have pursued, being conformable to truth, lays those foundations surer.'

Locke's Method was purely psychological; although he had been a student of medicine, he never indulges in any physiological speculations, such as his successors, Hartley and Darwin, delighted in, Ideas, and ideas only, solicited his analysis. Dugabl Stewart has remarked, that in the Essay there is not a single passage sarcuring of the material theatre or of the chemical laboratory.

We have already spoken of the positions of Bacon; that of Locke shall now speak for itself in his own words - 'If by this inquire into the nature of the understanding I can discover the powers thereof, how far they reach, to what things they are in any degree proportionate, and where they fail us, I suppose it may be of me to prevail with the busy mind of man to be more cautious in medding with the things exceeding its comprehension, to stop when it is at the utmost extent of its tether, and sit does in a print bywerance of those things which upon exumination are found to be beyond the reack of our expacities. We should not then perhaps be so forward, out of an affectation of universal knowledge, to raise questions and peoplex ourselves and others about things to which our understandings are not suited, and of which we cannot frame in our minds any clear or distinct perceptions, or whereof (as it has perhaps too often happened) we have not any notions at all. Men have reason to be well satisfied with what God has thought fit for them, since he has given them, as St. Peter says, mirror woke Coriesai cloiBass, whatsoever is necessary for the convenience of life and the information of virtue; and has yot within the reach of their discovery the conformble provision for this life, and the way that leads to a better. How short soever their knowledge may be of a universal or perfect escapethension of whatever is, it yet secures their great concernments, that they have light emough to lead them to the knowledge of their Maker and the sight of their own statics, Men may find matter sufficient to busy their heads and outploy their lands with variety, delight, and satisfaction, if they will not holdly quarrel with their own constitutions, and throw away the blessings their hands are filled with because they are not blg enough to grasp everything.

168 LOCKE,

"We shall not have much reason to complain of the necroarness of our sainds, if we will had employ them wheat must may be of our to us, for of that they are very capable, and it will be an ampartonable as well as childish pervishness, if we undervalue the advantages of one knowledge, and neglect to improve it to the ends for which it was given us, became there are some things set out of reach of it. It will be no excuse to us idle and untoward servant who would not attend his business by candle-light, to plead that he had not broad sometime. The enough that is not up within as abines bright enough for all our purposes.

When we know our own strength we shall the better know what to undertake with hopes of success;" and when we have well surveyed the powers of our own minds, and made some estimate when we may expect from them, we shall not be inclined either to set still, and not set our thoughts on work at all, despairing of linewing mything; or, on the other side, question exerviting, and disclaim all knowledge because some things are not to be understood. It is of great use to the sailor to know the length of his line, though he cannot with it fathorn all the depths of the ocean. It is well be knows that it is long enough to reach the bottom at such places as are necessary to direct his voyage, and contion him against running upon any shoals that they may rain him. . . . This was that which gave the first rise to this Essay concerning the Understanding; for I thought that the first step towards satisfying several impairies the mind of man was very apt to run into, was to take a survey of our own understandings, and to see to what things they were adapted. Till that was done I suspected we began at the wrong end, and in vain mught for satisfaction in a quiet and sure possession of truths that most concerned us, whilst we let loose our thoughts into the east occun of being; as if that boundless extent were the natural and undoubted possession of our unferstandings, wherein these is nothing exempt from its decisions, or that escaped its comprehension. Thus men extending their inquiries beyond their repairties, and letting their thoughts wander into those depths where they can find no sure feeting, it is no wonder that they raise questions and multiply disputes, which, never coming to any clear resolution, are percer only to continue and increase their doubts, and so confina them at last in perfect socyticism."

^{*} The rest cases and even of aircret all the certs in accesse in this, that take is magaziying and extelling the powers of the mind, we seek not its translate. — Bacco.

The decisive manner in which Locke separates launch from the autologists at not only historically noteworthy, but is also coticeable as giving the base to his subsequent speculations. We have admired the Portico, let us enter the Temple.

§ IV. THE ORIGIN OF SUR IDEAS.

Hobbes bad sold, with Gassendi, that all our ideas are derived from sensations; while of in intellecta good nos print forrit in sense. Inche, who is called a more popularizer of Hobbes, said that there were first somers, not our source, and those two were Sensation and Reflectives of inpute ideas—of truths independent of reperience,—he declared that all our knowledge is founded on experience, and from experience it ultimately derives itself. Separating himself no less decisively from the Gassendists, who saw no nonce of ideas but Sensation, he declared that although Sensation was the great source of most of our ideas, yet there was 'unother foundain from which experience furnisheth the understanding with ideas;' and this source, 'though it he and sense, as having nothing to do with external objects, yet it is very like it, and might properly enough be called internal areas.' this he calls Represertors.

After Degald Stewart's ample exposure of the wide-spread error that Locke was the chief of the so-called Sensational School, we need spend little time in inquiring whether Locke did or did not teach that all knowledge was referable to sensation. The passages which contradict the valgar error respecting Locke's doctrine are nameross and decisive. Dugald Stewart has selected several, but perhaps the one we have quoted above will be considered sufficiently explicit. Reflection, he says, 'though it he not sense,' may yet analogically be considered as an internal sense. To provent all miscoaccution, however, me will as a decienc example refer to his proof of the existence of God, which he sums up by saying. It is plain to me that we have a more certain knowledge of the existruce of a God thun of anything our senses have not immediately discovered to us. Nay, I presume I may say that we may more certainly know that there is a God, thun that there is saything che without us." (Book IV. ch. v.) Locke made the senses the source of all our sessions knowledge; our sives knowledge (on to speak) he derived from Reflection,

Historians have not accorded due praise to Locke for the impor-

440 LOUKE

tant advance he made towards a solution of the great question on the origin of knowledge. While Leibnitz has been landed to the skirs for having espressed Locke's dectrine in an epigram, Locke has not only been robbed of his due, but has been sacrificed to his rival. It is commonly said, 'Locke reduced all our knowledge to Sensation: Leibnitz came and accepted the old adage of aidd est. in intellects yand you print fuerit in seaso, but he necested it as only half the truth; and therefore added, sin how intellectus. Now, firstly, Locke did not accept the aloge as the whole truth; he said that Reflection was a second source of ideas. Secondly, Dugald Stewart has remarked that the addition which Leibnitz made when he said there is nothing in the intellect which was not previously in the sense, except the intellect itself, expresses no more than the doctrine of Locke, who says, 'External objects furnish the mind with ideas of sensible qualities; and the mind famishes the understuding with the ideas of its own operations.' Thirdly, although the phrase is epigrammatic, and thereby has had such success in the world as epigrams usually have, it will not hear scruting few epigrams will. Except us a verbal lingle, how trivial is the expression-the intellect is the intellect! Suppose a man to say, 'I have no money in my purse, except my purse itself, he would scarcely be less absurd. For when the Schoolmen said, 'nothing was in the intellect which was not previously in the sense,' they did not mean that the intellect was the same as the sense; they meant that the intellect was famished with no ideas, notions, or conceptions, which hid not been furnished them by senso; they meant that the senses more the inlets to the soul.

Dr. Whereell approves of the epigram; and alluding to Mr. Sharpe's objection to it, viz. that we cannot say the intellect is in the intellect, he says, 'This remark is obviously frivolous; for the facilities of the understanding (which are what the argument against the Sensational School requires us to reserve) may be said to be in the understanding with as much justice as we may assert that there are in it the impressions derived from sense.' We submit that the 'faculties' of the understanding are not 'so' that must be reserved for the argument against the Sensational School' (if the Lockists be meant, and to them only did Leibnitz address himself), for the simple reason that the faculties serve were denied." Opponents have attributed

[&]quot; Liceles often speaks of the operations of the mind as proceeding from powers autrinoisal and people to itself. He says also: 'Thus the first appearing

such a notion to Locke's school; no member of that school ever proposed it. The question pever was-Have are an Understanding, and has that Understanding certain Farillies! No; the question simply was.-What is the origin of our Ideas : are they purily invote and partly acquired, or are they schally acquired, and if so, is Sense the sale falet? To this plain question some replied plainly, 'Sense is the origin of all our ideas,' Locke replied, 'Sease and Reflection are the sources of all our ideas." Leibnitz replied, There is nothing in the intellect which was not previously in the sense; except the intellect itself! which latter romark is altogether beside the question. And yet this remark has called forth many pages of landatory declimation; pages in which Locke is cast into the background, and charged with having overlooked the important fact that man has an intellect as well as senses. This notion, once started, continued its trimuphant course. Men are for the most part like shoes, who always follow the bell-wether; what one boldly asserts, another echoes boldly; a third transmits it to a fourth, and the assertion becomes consolidated into a traditional judgment. Some one more serious, or more independent than the rest, looks into the matter; sees an error, exposes it; but tradition rolls on its unimpedral course. I do not expect to shake the traditional error respecting Locke; I was bound, however, to signalize it. Locke does not derive all our knowledge from sensation; Leibnitz has not made any addition by his too famous niei ipor intellectus.

By Sensation, Locke understands the simple operation of external objects through the senses. The mind is herein wholly passive. The senses, therefore, may be said to familish the mind with one portion of its materials. By Reflection he understands that internal sense, by means of which the mind observes its own operations. This furnishes the second and last portion of the materials out of which the mind frames knowledge. 'If it shall be demanded,' he says, 'when a man begins to have any ideas, I think the true answer is, when he first has any sensation. For since there appear not to be any ideas in the mind before the senses have conveyed any in, I conceive that ideas in the understanding are coveral with

of learner intellect is, that the said is fitted to receive the impressions made on it; either through the senses by currently objects, or by its own speculious when it replects on them."—Roug, b. it. c. i. § 24.

^{*} Lerboits houself says, when making the distinction. 'Cela s'accords asses awas votes amour do l'Essai, qui cherche use boune partie des Idéos dans la réflection de l'esprit sur le propre nature.'— Nouveeux Essair, il. c. l.

442 LOCKE

sensation." This is making a decision stand against the uphoblers of lamate ideas; but it is a very rule and incomplete view.

Doubly considered, not only are ideas not coreal with sensations. but semutions themselves are not corrul with the operation of exterms objects on our organs. Our sensus have to be educated, i.e. to be drawn out, developed. We have to learn to see, to hear, and to bouck. Light strikes on the infant peting, waves of nir polante on the infant temperum: but these as yet produce peither sight nor hearing: they are only the preparations for eight and hearing. Many hundred repetitions are necessary before what we call a sensation (i. c. a distinct feeling corresponding to that which the object will always produce upon the developed sensel can be produced. Many sensations are necessary to produce a perception; a perception is a cluster of sessetions with on ideal element added. On the educated Sense objects not so as instantaneously to produce what we call their sensations; on the unedicated Sense they are only so as to produce a vague impression, which becomes more and more definite by repetition."

Plate finely compares the soul to a book, of which the senses are the scribes. Accepting this comparison, writing is only possible after a series of tentatives; the hand must practise, before it can steady itself sufficiently to trace letters; so also must the senses learn by repetition to trace intelligible figures on the tobate rose of the mind.

Locke continues his account of the origin of all our knowledge thus: "In time the mind comes to reflect on its own operations about the ideas got by sensation, and thereby stores itself with a new set of ideas, which I call ideas of reflection. These are the impressions which are made on our senses by outward objects that are extrinsical to the mind, and its own operations proceeding from powers intrinsical and proper to itself; which when reflected on by itself, becoming also objects of its contemplation, are, as I have said, the original of all knowledge. Thus the first espacity of the lumin intellect is that the mind is fitted to receive the impressionreade on it; either through the senses by outward objects, or by its own operations when it reflects on them. This is the first step

† Philodean, p. 192. Plato's words are not given in the test, but the

^{*} See this growth of smastless toyated in detail in Beneke's Lekebock dos Populationic. See also the chapters on Hartley and Durwin further on.

that a man makes towards the discovery of and the groundwork. whereon to build all those notions which ever he shall have maturally in this world. All those sublime thoughts which tower above the clouds, and reach as high as hensen itself, take their rise and footing here in all that good extent wherein the mind wanders, in those princte speculations it may seem to be elevated with, it stirs not one jot beyond those ideas which sense or reflection have offered for its contemplation."

The close of this passage is an answer to the outologists; not one. however which they will accept. They deny that sensation and reflection are the only sources of materials. But we will continue in hear Locke : 4 When the understanding is once stored with these simple ideas, it has the power to repent, compare, and unite them, even to an almost infinite variety, and so can make at pleasure new complex ideas. But it is not in the power of the most exalted wit, or enlarged understanding, by any quickness or variety of thought, to invent or frame one new simple idea in the mind not taken in by the ways aforementioned."

This is very explicit-and, we believe, very true. If true, what becomes of Philosophy?

5 V. ELEMENTS OF IDEALISM AND SCREPTICION IN LOCKE.

The passage last quoted naturally leads us to consider Locke's position in the great debate carried to respecting our knowledge of things per se.

Can we know things us they are? Descartes and his followers. suppose that we can: their criterion is the cleamess and distinctness of ideas. Locke admirably said, 'Distinct ideas of the several spets of bodies that fall under the examination of our senses, perhaps we may have; but adequate ideas I suspect we have not of any one amongst them.' Our ideas, however clear, are never adequate they are subjective. But Locke only went halfway towards the conception of knowledge as parely subjective. He did not think that all our aleas were images, espler of external objects; but he expressly taught that our ideas of what he calls prisonry qualities, one reseassistances of what really exist in bodies; adding, that "the ideas produced in us by sersodory qualities have no resemblance of them at all. There is nothing like our ideas existing in the bodies themselves. They are, in the bodies we depominate from them, only a power to produce these sensations in as."

\$44 LOCKE

It is remarkable that the last sentence did not lead him to the conclusion that all the qualities which we provide in budies are but the powers to produce sensations in us; and that it is we who attribute to the causes of these sensations a form analogues to their effects. He himself warned us 'that so we may not think (as perhaps usually is done) that they (ideas) are exactly the images and resemblances of asserthing interest in the subject; most of those of sensation being in the mind as more the likeway of something emissing without as then the mount that alond for them are likeways of our bless, which yet upon bearing they are up to excite in us.' And elsewhere, 'It being no more impossible to conceive that God should annex such ideas to such motions (i.e. the motions of objects affecting the senses) with which they have an aimifitude, than that he should amore the idea of pain to the motion of a piece of steel dividing our flesh, with which that idea hath no resemblance.'

From these passages it will be seen how clearly Locke understood the subjective mature of one portion of our knowledge. He did not carry out the application of his principles to primary qualities, owing perhaps to inveterate association having too firmly established the contrary in his mind. Every one is willing to admit that colour, light, heat, perfume, taste, etc., are not qualities in the bodies which produce in us those effects, but simply conditions of our sensibility, when phose in certain relations with certain bodies. But few are willing to admit-indeed only philosophers (accustomed as they are to undo their constant associations) can conceive the primary qualities, viz. extension, solidity, motion, and number, to be otherwise than real qualities of bodies-cosics of which are impersonal upon us by the relation in which we stand to the bodies. And yet those qualities are no less subjective than the former. They do not belong at all to bodies, except as powers to produce in us the sensations. They are demonstrably as much the effects produced in us by objects, as the secondary qualities are; and the latter every one admits to be the effects, and not cooler. Wherein lies the difference? wherein the difficulty of concessing primary qualities not to belong to bodies? In this: the primare qualities are the beverfield conditions of sensation. The secondary qualities are the envision conditions. We can have no perception of a body that is not extended, that is not solid for the reverse, that is not simple or complex (number), that is not in motion or rest. These are iscarsible conditions. But this body is not necessarily of any particular colour, taste, seent, heat, or smoothams; it may be colourless, tasteless, scentiless. These secondary qualities are all coviable. Consequently the one set, being invariable, have occasiowal individuable associations in our minds, so that it is not only impossible for us to imagine a body, without at the same time imagining it as endowed with these primary qualities; but also we are irresistibly led so believe that the bodies we perceive do certainly possessthose qualities quite independently of us. Hence it has been said. that the Creator himself could not make a body without extension : for such a body is impossible. The phrase should be, such a body it is impossible for as to enservier." But our indissoluble associations are no standards of reality.

That are cannot conceive hody without extension is true, but that, because we cannot conceive it, the contrary must be false, is proposterous. All our assertion in this matter can amount to is, that knowledge must be subordinate to the conditions of our nature. These conditions are not conditions of things, but of our organizations. If we had been so constituted as that all bodies should affort us with a sensible degree of marmille, we should have been irresistibly fed to conclude that warmth was a quality inherent in body, but because warmth raries with different bodies and at different times, there is no indissoluble association formed. And so of the rest.

To return to Locke; he has very well stated the nature of our knowledge of external things, though he excepts primary qualities. " It is evident," he says, " that the bulk, figure, and motion of several bodies about us, produce in us several rensations, as of colours, sounds, tastes, smells, pleasure and pain, etc. These mechanical affections of bodies barries us affectly at all with those ideas they greater in us (there being no conceivable connection between any impulse of any sort of body, and any perception of a colour or smill which we find in our minds) we can have so distinct knowtoday of such surrations depond our experience; and can reason about them no otherwise than as the effects produced by an infinitely nise Agent, which perfectly surpass our comprehensions."

He shortly after says, 'The things that, as far as our observation reaches, we constantly find to proceed regularly, we may conclude do not by a law set them; but set by a law that we know not; whereby, though causes work steadily, and effects constantly flow from them, net their connections and dependencies being not discoverable in our ideas, we can have but an experimental knowledge of them.' Here we have Hume's doctrine of Consution authorpated.

446 LOCKY

To prove the subjective anture of our knowledge is but one step towards the great question. The second step, which it is vulgarly supposed was only taken by Berkeley and Hume, was also taken by Locke. Hear him. 'Since the mind in all its thoughts and reasonings bath no other immediate object but its own ideas, which it alone does or can contemplate, it is evident that our knowledge is only conversant about them. Knowledge, then, seems to me nothing but the perception of the connection and agreement, or disagreement and repugnancy, of any one of our ideas.'

This is the great stronghold of Idealism and Sceptimen. Locke foresaw the use which would be made of it; and he stated the problem with remarkable precision. It is evident that the mind knows not things immediately, but only by the intervention of ideas it has of them. Our knowledge therefore is real, only so far as there is a conformity between our ideas and the restaty of things. But what skall be keys the criterion? How shall the mind, when it preceives withing but its own ideas, know that they agree with the things themselves?

Thus has be stated the problem which was solved by Idealian on the one hand, and by Sceptieism on the other. Let us see how he will solve it. There are two seets of ideas, he says, the simple and the complex; or, to use more modern language, perceptions and conceptions. The first 'must necessarily be the product of things operating on the mind in a natural way, and producing those perceptions which by the wisdom and will of our Maker they are ordained and adapted to. From wheneve it follows that simple ideas are not fictions of our fances, but the natural and regular productions of things without us really operating spose us; and so carry with them all the conformity which is intended, or which our state requires: for they represent things to us under those appearances which they are fitted to produce in us."

This leaves the question of Idealism unmassered, though it cuts the Gopdon knot of Scryticism. It is a plain and explicit around of the subjectivity of our knowledge; of the impossibility of our ever transcending the sphere of our consciousness and penetrating into the essences of things. Complex ideas being made out of simple ideas, we need not examine their pretensions to infidibility. All human certainty is therefore only a relative certainty. Ideas may be true for us, without being at all true when considered absolutely. Such is Locke's position. He stands upon a hulge of rock between two yawning abysess. He will stand there, and proceed no further.

Why should be more when he knows that a single step will precisitute him into some fathomics gulf? No; he is content with his ledge of rock. 'The notice we have by our senses,' he says, 'of the existence of things without us, though it be not altogether so eertain as our intuitive knowledge or the deductions of our reason, employed about the clear, abstract alms of our own minds; yet it is an assurance that deserves the name of knowledge. If we persunde ourselves that our families art and inform us right concerning the existence of those objects that affect them, it cannot pass for an ill-grounded confidence; for I think nobody can in earnest be so acceptical as to be uncertain of the existence of those which he was and feels. At least he that can doubt so far (whatover he may have with his own thoughts) will never have any controversy with me, since he can never be sure I say anything contruey to his own enimons. As to sayself, I think God has given me assurance enough as to the existence of things without me; since by their different application I can produce in myself both pleasure and pain, which is one great concernment of my present state. We emnot not by anything but our faculties; nor talk of knowledge but by the help of those faculties which are fitted to apprehend even what knowledge is."

Again, naticipating the objection that all we see, hear, feel and taste, think and do, during our whole being, is but the series and deluding appearances of a long dream, and therefore our knowledge of anything be questioned; I must desire him to consider that if all be a dream, then he doth but dream that makes the question; and so it is not much watter that a waking man should asswer him. But yet if he pleases, he may dream that I make him this answer. That the certainty of things existing in in revaus ustard, when we have the testimony of our senses for it, is not only as great ar say frame can ottals to, but as our condition ageds." This leaves Idealism unansword; but it pronounces Scopticism to be frivalous: "for our faculties," he continues, "being not saited to the full extent of feing, nor to a perfect, clear, comprehensive knowledge of things fire from all doubt and scrupte, but to the preservation of us, in whom they are, and accommodated to the me of life; they serve our purpose well enough, if they will but give us certain notice of those things which are convenient or inconvenient to us."

That this is very good common-sense every one will admit. But it is no owner to Scepticism. Hume, as we shall see hereafter, proclaimed the very same opinions but the difference between

448 LOCKII

him and Locke was, that he knew such opinions had no influence whatever upon the philosophical question, but simply upon the practical affairs of life; whereas Locke, contenting himself with the practical, disdained to answer the philosophical question."

We may sum up the contents of this Section by saying that Locke distinctly enough foresaw the Idealistic and Scaptical arguments which might be drawn from his principles. He did not draw them, because he thought them frictions. Aware that all human certitude could only be relative certitude—that human knowledge could never embrace the nature of things, but only the nature of their effects on us—he was content with that amount of truth, and 'sat down in quiet ignorance of those things which are beyond the reach of our capacities.' The grand aim of the Enoy was to prove that all knowledge is founded on experience. That proved, he was aware that Experience never could be other than relative—it could only be our Experience of things; and our Experience could be no adminite standard; it could only be a standard for us.

4 VI. LOCKE'S CHYRIS.

We entired leave the great Englishman without adverting to the tone adopted by many of his critics. This tone has been anything but considerate. The sincerest and least dogmatic of thinkers has for the most part test with insincere and shallow criticism.

That men should misrepresent Spinoza, Hobbes, or Hume, is intelligible enough; men are frightened, and in their terror rangerrate and distort what they see. That they should misrepresent Kaut, Fichte, or Hugel, is also intelligible; the remoteness of the speculations, and the difficulty of the language, are sufficient excuses. But that they should misrepresent Locke is wholly imacusalfe. He was neither an audacious speculator, nor a cloudy writer. His fault was that he spoke plainly and honestly. He sought the truth; he did not wish to myssify any one. He endeavoured to explain the Chemistry of the Mind (if the metaphor be permissible), renouncing the sagne fittle dreams of Alchemy. All those men who still seek to penetrate impenetrable mysteries, and refuse to arknowledge the limits of man's intelligence, treat Locke with the same

^{*} Dr. Reid conjectures that 'Locks had a gittapec of the system which Berkeley afterwards advanced, though be thought proper to suppress it within his own beaut.' Not so suppress, but to disclaim in:

superb disdain as the ambitious alchemists treated the early chemists. The tone in which most modern Frenchmen and Germans speak of Locke is pointed; the tone in which many Englishmen speak of him is disgraceful. To point out any error is honourable; but to access him of errors which are not to be found in his work, to interpret his language according to your views, and then access him of inconsistency and superficiality; to speak of him with super-ciliousness, as if he were some respectable but short-nighted gentleman dabbling with philosophy, and not one of the great benefits tors of mankind, deserves the screenst reproduction.

There is no excuse for not understanding Locke. If his language be occasionally loose and wavering, his meaning is always to be gathared from the context. He had not the Incidity of Descartes or Hobbes; but he was most anxious to make himself intelligible, and to this end he varied his expressions, and stated his meaning in a variety of forms. He must not be taken literally. No single passage is to be relied on, unless it be also borne out by the whole tenour of his speculations. Any person merely dipping into' the Essay, will find passages which seem very contradictory; any person excefully reading it through will find all clear and coherent.

The most considerable of Locke's modern critics is Victor Consin.

He has undertaken an examination and relatation of all Locke's important positions. The eminence of his name and the popular style of his lectures have given great importance to his enticism; but if we are to speak out our opinion frankly, we must characterize this criticism as very unfair, and extremely shallow. We cannot here examine his examination: a volume would not suffice to expose all his errors. Let one example of his unfairness, and one of his shallowness, suffice.

Speaking of the principle of reflection, he says: 'In the first place, remark that Locke here evidently confounds reflection with consciousness. Reflection, strictly speaking, is doubtless a faculty analogous to consciousness, but distinct from it, and which more particularly belongs to philosophers, whereas consciousness belongs to every man.'

We maker, that in the first place, so far from its being evident that Locky confounds reflection with consciousness, his whole Essay proves the contrary. In the second place, M. Consin, using the word reflection in a pseuliar sense (viz. as taxtamount to specula-

On this point counds Dr. Vaughan's supercess defence of Locks against his session in the Energy on History, Philosophy, etc.

450 LOCKEL

tion), forces that sense upon Locke, and thus unkes the contradiction! If M. Coesin had interpreted Locke fairly, he could never have thus 'caught him on the hip.'

It is quite true that in the passage quoted by M. Cousin, the faculty of reflection is limited to the operations of the mind; but, as we said, to piu Locke down to any one passage is suffair; and his whole Essay proves, in spite of some ill-worded definitions, that by reflection he meant very much what is usually meant by it, viz. the activity of the mind in combining the materials it receives through sense, and becoming thus a source of ideas.

This leads us to the second example. W. Consin wishing to prove, against Locke, that we have ideas from some other source beside sensation and reflection, instances the idea of space, and examines how it was possible to obtain that idea through sensation and reflection. That the idea of pure space could not have been obtained through the senses he seems to think is satisfactorily proved by proving that the idea has nothing sensoons in st; that it could not have been obtained through reflection, because it has nothing to do with the operations of our understanding, is equally evident to him. Hence, as both sources fail, he pronounces Locke's account of the origin of our knowledge incomplete and various."

This argument, which extends to several pages, is deemed by M. Cousin triumphant. Locke indeed says that twe get the idea of space both by our sight and tourh. Any houset inquirer would never quilble upon this-would never suppose Locke meant to say that space is a sessestion. He would understand that Locke meant to say, "the idea of space is an abstraction; the primary materials are obtained through our touch and sight.' Locke did not anticipate any quibilling objection, so did not guard against it; but in his explanation of our idea of substance he has given an auslogous case; although his antagonists have also frequently objected that the idea of substance never could have been obtained through sense. It has been thought an investible argument against Locke's theory; the very fact that we have an idea of substance is supposed to be sufficient proof of some other source of knowledge than sensation and reflection. This is an example of how carelessly Locke has been read. He expressly tells us, in more places than one, that the idea of substance (and by idea he does not here mean image, but a thought is an inference grounded upon our experience of external things. True it is that we perceive nathing but phenomena, but our minds are so constituted that we are

forced to suppose these phenomena have substances lying underneath them.

'If any one will examine himself,' he mays, 'concerning his notion of pure substance in general, he will find he has no other idea of it at all, but only a supposition of he knows not what support of such qualities which are capable of producing simple ideas in us, which qualities are commonly called accidents. If any one should be asked what is the subject wherein colour or weight inheres, he would have nothing to say but the solid extended parts; and if he were dramaded what is it that solidity and extension inhere in, he would not be in a much better case than the Indian who, saying that the world was supported by a great elephant, was asked what the elephant rested on, to which his answer was, A great tortoise; but being again pressed to know what gave support to the great broad-backed tortoise, replied, Something, he know not what.'

The same course of argument will apply to space. Space is an idea suggested by place, which is surely one derived from the senses; but M. Cousin declaims away at a great rate, and brings forward many arguments and illustrations, all atterly trivial, to show that the idea of space could never here been a sensation. A little more attention in reading the author be attacks would have saved him all this treable. Locks never for an instant supposed that the idea of space could have been a sensation: on the fact that it could not, be grounds his position that the idea is vague, and is a more 'supposition.'

The German critics we may pass over in silence. The whole tentur of their speculations untits them for judging Locks. But let us hear an Englishman, who is also an historian :- 'We need not spend much time in pointing out the inconsistencies into which Locke fell," says Dr. Whewell, " as all most full into inconsistencies. who recognize no source of knowledge except the senses.' Let us remark, in the first place, that it is surely a questionable procedure thus to pass over so great a man as Locke, whose influence has been to general and lasting, and whose 'inconsistencies' it behaved Dr. Where'll, more than most men, to refute, inasmuch as Locke's principles refute his whole philosophy. Secondly, it is a misrencesentation to assert Locke's having recognized to source of knowledge except the senses." On reconsideration he must admit that Locke did recognite another source. 'Thus he maintains,' routs. mes Dr. Whewell, I that our idea of space is derived from the senses. of sight and touch-our idea of solithiy from the touch alone. Our 152 LOCKE.

notion of substance is an unknown support of unknown qualities, and is illustrated by the Indian fable of the tortoise which supports the elephant which supports the world.

Space we have already considered in mowering M. Cousin. As to solidity, if the idea be not derived from the sensation, from whence is it derived? And as to substance, we must been again notice a misrepresentation of Locky, who does not define at as 'ma miknown support of unknown qualities," but as an unknown support of Jasice qualities: from our knowledge of the qualities we infer the existence of some substratum in which they inhere. We are, with respect to substance, somewhat in the condition of a blind man, who, whenever he moved in a certain direction, should previte a blow from some revolving wheel. Although unable to see the wheel, and so understand the cause of the pain be received, he would not heutage to attribute that cause to something without him. All he could ever know, unassisted, would be the fact of his being struck when he moved in a certain direction; he could have no other knowledge of the wheel, yet he would be quite certain that there was something besides his pain, and that unknown something would stand to him in a relation somewhat similar to that in which the manown support of known accidents of bodies stands to us. This is Locke's meaning.

"Our notion of power or cause," continues the historius, "is in like minner got from the senses; and yet, though these ideas are thus mere fragments of our experience, Locke does not hesitate to ascribe to them necessity and universality when they occur in propositions. Thus he maintains the necessary truth of geometrical properties; he asserts that the resistance arising from soliday is absolutely insurmountable; he conceives that nothing short of Ournipotence can annihilate a particle of matter; and he has no misgivings in anguing upon the axiom that everything must have a cause. He does not perceive that upon his own account of the origin of our knowledge, we can have no right to make may of these assertions. If our knowledge of the truths which concern the exterroid world were whofir derived from experience, all that we could venture to say would be, that geometrical properties of figures are true as for as we have fried them; that we have seen as expende of a solid texty being reduced to occupy less space by pressure, or of a material substance annihilated by natural means; and that, properties we have consisted, we have found that every change has had a cause !

This is only one among many instances of Dr. Whewell's want of accurate interpretation of Locke. The fallacy on which his argument rests, we shall examine at some length when we come to treat of Kant. Messawhile let the following passage prove that he has misconceived Locke, who certainly did not lessitate to assembe necessity and universality to certain ideas when they occur in propositions,' but who very clearly explained the nature of this accessity in a masterly passage: 'There is one sort of propositions concerning the existence of anything answerable to such an idea; as having the idea of an elephant, phonix, motion, or angle, in my mind, the first and natural imquiry is, whether such a thing does anywhere exist. And this knowledge is only of particulars. No existence of anything without us, except God, can certainly be known further than our senses inform us.

"There is another sort of propositions, wherein is expressed the agreement or disagreement of our abstract ideas and their dependence on one number. Such propositions may be universal and certain. So, having the idea of God and of myself, of fear and obelience, I cannot but be sure that God is to be feared and obeyed. by me : and this proposition will be vertain concerning man in general, if I have made an abstract idea of such species whereof I es ore perfireder. But yet this proposition how certain sorrer, that men ought to fear and obey God, proven not to me the existence of men in the world, but will be true of all such exectures solerecer they do exist , which cortainty of such general propositions. depends on the agreement or disagreement to be discovered in those abitract ideas. In the former case our knowledge is the comequenee of the existence of things producing ideas in our minds by our senses; in the latter, knowledge is the consequence of the ideas (by they wint they will) that are in our minds producing their general certain propositions.

'Many of those are called selective revisites; and all of them indeed are so; not from being written in the minds of all men, or that they were any of them propositions in any one's mind till be, having got the abstract ideas, joined or separated them by affirmation or negation. But wherenever we can suppose such a creature as man is, endowed with such faculties, and thereby furnished with such ideas as we have, we must conclude be must needs, when he applies his thoughts to the consideration of his ideas, know the much of certain propositions that will arise from the agreement or disagreement which he will perceive in his own ideas. Such propositions

454 LOCKE.

sitions therefore are called eternal truths, not because they are eternal propositions actually formed and antecedent to the understanding that makes them; nor because they are imprinted on the mind from any patterns that are mywhere of them out of the mind and existed before; but because being once made about abstract ideas so as to be true, they will, whenever they can be supposed to be made again at my time by a mind baring those ideas, always actually be true." This pusonge is sufficient to exouerate him from the charge of inconsistency; sufficient also, we believe, to show the error of Dr. Whewell's own conception of the necessity of certain truths.

The foregoing are samples of the style in which the great master of Psychology is spoken of by his most modern critics. Let them be sufficient warning to the reader of what he is to expect from the partisons of the reaction against Locke, and his followers; and attinulate him to the careful study of that author who 'professes no more than to by down, cindidly and freely, his own conjectures concerning a subject lying somewhat in the dark, without any other design than an unbiassed inquiry after truth.'

^{*} Block ir. ch. at. 65 13, 14.

CHAPTER III.

LEIRVITZ.

I BIBNITZ was the first and last of Locke's great critics. He had stralled the Except on the Houses Understanding, though he could not accept its principles. His arguments have formed the staple of objection against Locke; and from him they come with possiliar force, because they are parts of his system.

Leibnitz has a great reputation in philosophy and mathematics; but the nature of this work forbids our cutering into any detailed examination of his claims, insuruch as he introduced no new ideas, no new extension of old methods. All that can here be done is to indicate the line of opposition which he took with respect to Locke's theory of the origin of Knowledge.

At first be answered Lucke in a few paragraphs of a somewhat supervilious tone. He evidently looked upon the Essay as not destined to achieve my influential reputation." This opinion he lived to alter) and in his Nonrousz Essais our l'Entradement Homain, he brought all his forces to hear upon the subject; he grappled with the Essay, and disputed the ground with it inch by inch. This remarkable work was not published till many years after his death, and is not included in M. Dutens' edition. Dugald Stewart was not aware of its existence; and this fact will explain a passage in his Dissertation, where he says that Leibnitz always speaks coldly of Locke's Econy. Leibnitz does so in his curlier works; but in the Nor Essens he treats his great adversary with due respect; and in the Preface, speaks of him with eulogy. *The Essay concerning Hosen Understanding, written by an illustrious Englishman, being one of the finest and most esteemed works of our time, I have resolved to make some comments on it. . . . Thus I shall procure a favourable introduction for my thoughts by placing them in such good company. . . . It is true that I am often of a different opinion; but so for from detracting on that account from the merit

^{*} See Riffering our l'Essel de M. Locke, as the Recoull of Destanicants, vol. ii.

of this celebrated writer, that I do him justice in making known in what and wherefore I differ from him, when I judge it recessary to prevent his authority from prevailing over reason on some important points. In fact, although the author of the Essay says a thousand things which I must appland, yet our systems greatly differ. His has greater affinity to that of Aristotle,—mine, to that of Plato,' This is the spirit in which the Homeric heroes regard their adversaries; on interchange of admiration for each other's provess does not deaden one of their blows, but it makes the combat more dignified.

Leibnizz belonged to the Cartesians; but he also mingled with the doctrines of Descartes sertain ideas which he had gathered from his communes with natiquity. Plato, and Democratus especially, influenced him. To a mind thus furnished, the doctrines of Locke must needs have been unwelcome; indeed they could not be expected to gain admission. Moreover, as F. Schlegel well observed, every more is born either a Platonist or an Aristotelian.* Leibnitz and Locke were examples of this autagonism: Our differences,' says Leibnitz,' are important. The question between us is whether the soul in itself is entirely empty, like tablets upon which nothing has been written (takelo varse), according to Aristotle and the author of the Ensey; and whether all that is there traced comes wholly from the senses and experience; or whether the stell originally contains the principles of several notions and dectrines, which the external objects only awaken on occasions, in I believe with Plato.'

The nature of the problem is well stretch here; and Leibnitz sides with Plato in his solution of it. The main arguments by which he supports his view are those so often some repeated of the Universality and Necessity of certain truths, and of the incaparity of experience to formish us with anything beyond a knowledge of individual cases. 'For if any event can be foreseen before it has been tried, it is manifest that we contribute something for our own parts.' Ergo, mere experience, it is argued, does not constitute all our knowledge. 'The senses, although accessing for all actual knowledge, are not sufficient to give as all of it; since the senses never can give but examples, that is to say particular or individual truths. But all the examples which confirm a general truth, however numerous, do not suffice to establish the universal messages of

^{*} Coloridge and to pass off the sphorum as his own. It is to be found however in Schlegel's Generalish's are Literature.

that truth; for it does not follow that that which has once occurred will always occur in the same way."

Leibnitz continues: 'Whence it appears that accessary truths, such as we find in mathematics, and particularly in arithmetic and geometry, must have principles of which the peoof does not depend upon examples, nor consequently upon the senses, although without the senses one would never have thought of them. So also logic, metaphysics, and morals, are full of such truths, and consequently their proofs can only come from those internal principles which are called insente.'

Locke would perfectly have agreed with these premisses, but the conclusion he would rightly later rejected. That the senses alone could not famish us with any general truth, he taught as expressly as Leibnitz did; but this in no way affects his system, for he did not build his system muon the senses alone.

Leibnitz however seems to have been misled by Locke's language in the first definition of Reflection; for he says, 'Perhaps the opinions of our able author are not so far from mine as they appear to be. For after having employed the whole of his first book against innate knowledge taken in a certain sense, he acknowledges in the beginning of the second that there are ideas which do not originate from the senses, but arise from Reflection. Now reflection is nothing but attention to that which passes within us; and the senses do not concey to as what we obveous passess within ourselves. Can it then be denied that there is much innate in the mind?'

The passage in italies is a enrious instance of how the mind, processins of others. Leibnitz here assumes the very point at issue; assumes that the mind has innute ideas which the senses cannot comey to it; and this assumption be supposes to be contained in Lacke's words. Locke taught precisely the contrary. 'The mind is itself impate,' continues Leibnitz—(to which we resterate our objection impate in what? In itself? or in us? To say that it is innute in itself is a quibble; that it is innute in we, is a displacement of the question; no one ever doubted that the mind of man was born in man—born with man; the question was, Are there any ideas born with the mind, or are all ideas acquired by the mind?) 'The mind is itself innute, and there are included in it substance, fluration, change, action, perception, pleasure, and a thousand other objects of our intellectual ideas. . . . I have used the comparison

of a block of marble which has certain veins in it, rather than a plain piece of marble such as the philosophers call tobule resurbecause if the soul resembled tablets unwritten on, truths would be
in us like the figure of Hercules is in the block of marble, when
that marble may receive indifferently one figure or another. But
if there are seins in the marble which mark the figure of Hercules
rather than may other figure, that marble would be more determinate, and the figure of Hercules would in some way be inpute,
although labour would be necessary to discover the veins, and to
fire them from their envelopment of marble. Thus are ideas and
truths innate in us."

This is an ingenious statement of the theory: unfortunately for it, the very existence of these veins in the marble is an assumption, and an assumption not made for the facilitating of impury, but simply for the peoof of the theory assumed; it is an hypothesis framed for the sake of explaining—what?—the hypothesis itself! Ideas are first assumed to be insure; to prove this assumption, another assumption—the existence of immte ideas—is made; and the theory is complete.

The real force of Leibnita's theory lies in his distinction between contingent and necessary truths, and in his position that experience alone could never furnish us with necessary tenths. The examination of this we must delay till we come to Kant.

A brief view of the exchanted scheme of Pre-established Hararony will be all that is necessary to complete what we have here to say of Leibnitz. It was in those days an axiom universally admitted that 'Like could only act upon Like?' The question then arose: lose does body act upon mind; how does mind act upon body? The two new atterly units: how could they act upon each other? In other words: how is Perception possible? All the ordinary explanations of Perception were miserable failures. If the mind perceives copies of things, how are these copies transmitted? Efficvia, cidola, images, motions in spirits, etc., were not only hypotheses, but hypotheses which how no examination: they did not get rid of the difficulty of two unlike substances acting upon each other.

Leibnitz horrowed this hypothesis from Spinona—whom, by the way, he always abuses: The boson mind and the human body are two independent but corresponding markines. They are so adjusted that they are like two unconnected clocks constructed so as that at the same instruct one should strike the hour and the other point it. "I cannot help coming to this notion," he says, "that God created LEHSITZ. 459

the soal in such a manner at first, that it should represent within itself all the simultaneous changes in the body; and that he has made the body also in such a manner as that it must of itself do what the soal wills: so that the laws which make the thoughts of the soal follow each other in regular assessment, must produce images which shall be coincident with the impressions made by external objects upon our organs of sense; while the laws by which the motions of the body follow each other are likewise so coincident with the thoughts of the soal as to give to our robbines and actions the very same appearance as if the latter were really the natural and the necessary consequence of the former."

This hypothesis has been much ridiculed by those unaware of the difficulties it was framed to explain. It is so repugnant however to all ordinary views, that it gained few, if any, adherents.

^{*} The best edition of Ledwitz's works in that by Enfrance—Leidwilli Opera Philosophics: Berlin, 1829. The Noncour Energy are there for the accord time published the first was in Raspe's edition, Leipzig, 1743); and they have been since republished in a charp and convenient form by M. Jacques: Paris, 1945.

CHAPTER IV.

SUMMARY OF THE THIRD EPOCH.

THE result of the speculations we have been considering—speculations begun by Gassendi and Hobbes, and further developed by Locke—was to settle, for a long while, the dispute respecting Experience, and to give therefore a new direction to inquiry.

It was considered as established,—Let. That we could have no knowledge not derived from experience. 2nd, That experience was of two kinds, vir. of external objects and of internal operations; therefore there were two distinct sources,—sensation and reflection. Sail. That all knowledge could only consist in the agreement or disagreement of our ideas. 6th. Finally, that we could never know things in themselves, but only things as they affect us; in other words, we could only know our ideas.

To this had Locke brought Philosophy. Rightly interpreted, it was a denial of all Philosophy—a demonstration of its impossibility; but this interpretation Locke did not put upon his doctrines. That remained for Hume. Locke's system produced three distinct systems: Berkeley's Idealism, Hume's Scepticism, and Confillac's Sensationalism.

FOURTH EPOCH.

THE SUBJECTIVE NATURE OF KNOWLEDGE LEADS TO IDEALISM.

CHAPTER 1.

BERKELEY.

& I. Lare or Benkmar.

THERE are few men of whom England has better reason to be proud than of George Berkeley, Bishop of Cloyne. To extraordinary merits as a writer and thinker, he united the most exquisite purity and generosity of character; and it is still a moot-point whether he was greater in head or heart.

He was born on the 12th of March, 1684, at Kilcrin, in the county of Kilkenny; and educated at Trinity College, Dublin, where, in 1707, he was admitted as a Fellow. In 1709, he published his New Theory of Vision, which made an epoch in Science; and the year after, his Principles of Hanna Kasseledge, which made an epoch in Metaphysics. After this he came to London, where he was received with open arms. "Ancient learning, exact science, polished society, modern literature, and the fine arts, contributed to adom and enrich the mind of this accomplished man. All his contemporaries agreed with the Satirist in ascribing

"To Berkeley every virtue under houren."

Adverse factions and hostile wits concurred only in loving, admiring, and contributing to advance him. The severe sense of Swift endured his visious; the modest Addison endeavoured to reconcile Clarke to his ambitious speculations. His character converted the satire of Pope into fervid graise. Even the discerning, firstidious, and turbulent Atterbury said, after an interview with him, "So much learning, so much knowledge, so much immecaner, and such humility, I did not think had been the portion of any but angels, till I saw this gentleman."

^{*} Sir J. Markintonk.

His acquiratance with the with led to his contributing to the Georgian. He became chaplain and afterwards secretary to the Earl of Peterborough, whom he accompanied on his embassy to Sicily. He subsequently made the boar of Europe with Mr. Ashe, and at Paris met Malebranelo, with whom he had an animated discussion on the ideal theory. In 1724, he was made Dom of Derry. This was worth eleven hundred pumpls a year to him; but he resigned it in order to distincte his life to the compension of the North American savages, stipulating only with the Government for a salary of one hundred pounds a year. On this remainte and generous expedition be was accommanded by his young wife. He set said for Rhade Island, carrying with him a valuable library of books, and the bulk of his property. But, to the shame of the Government, be it said, the promises made him were not fulfilled. and after saven years of single-handed endeavour, he was forced to return to Eagland, laving spent the greater part of his feetune in riin.

He was made Bishop of Cloyne in 1734. When he wished to resign the King would not parasit him; and being keenly alive to the exils of non-residence, he made an arrangement before leaving Cloyne, when by he settled 4:300 a year, during his absence, on the poor. In 1753, he removed to Oxford, where, in 1753, he was suddealy seized, while reading, with pulsy of the heart, and died almost instantaneously.

Of his numerous writings we cannot here speak; two only belong to near subject; the Principles of Knowledge, and the Dislogues of Hylos and Philosom. We hope to remove some of the errors and prejudices with which his name is incrusted. We hope to show that, even in what are called his wildest moods, Berkeley was a plain, sincere, deep-danking nam, not a sophist, playing with paradones to display his skill.

§ II. BRICKILLY UND COMMON SPRUE,

All the world has beard of Berkeley's Edealism; and immunorable 'execumbs' have varquished it with a grin, "Ridicule has not been sparing. Argument has not been wanting. Idealism has been loughed at, written at, talked at, shricked at. That it has been anderstood, is not so apparent. In reading the criticisms upon his theory it is quite balierous to notice the constant iteration of

^{*} And concerns magnish Berkeley with a grin."-Pope.

trivial objections which, trivial as they are, Berkeley had already anticipated. In fact the critics missinderstood him, and then reproached him for incomistency—inconsistency, not with his principles, but with theirs. They forced a meaning upon his words which he had expressly rejected; and then triumphed over him because he did not pursue their principles to the extraorgances which would have resulted from them.

When Berkeley denied the existence of matter, he meant by "matter" that manown assistration, the existence of which Lichehad declared to be a necessary inference from our knowledge of qualities, but the nature of which must ever be altogether hidden from its. Philosophers had assented the existence of Substance, Le of a someron bring underseath all plesonesse-a substratum supporting all qualities-a something in which all necidents inhere. This unknown Substance, Berkeley rejects. It is a more abstracttion, he says. If it is unknown, unknowable, it is a figurest, and I will some of it; for it is a figurant wome than uncless; it is pernimons, as the basis of all atheism. If by matter you understand that which is were felt, tasted, and touched, then I say metter exists: I am as firm a believer in its existence as our one can be, and herein I agree with the relger. If, on the contrary, you understand by matter that occult solutestans which is not seen, not fift, not trated, and not touched-that of which the senses do not, cannot, inform you-then I say I believe not in the existence of matter, and berein I differ from the philosophers and agree with the enight.

'I am not fer changing things into ideas,' he says, 'but rather ideas into things; since those isomediate objects of perception, which, according to you (Berkeley might have said, according to all philosuphers) are only appearances of things, I take to be the real things themselves.

"Hyles. Things | you may pretend what you please; but it is arrivin you leave as nothing but the empty forms of things, the owl-side of schieb only strikes the senses.

*Philiamer. What you call the empty forms and outside of thirgs scen to see the very things themselves. . . . We both therefore agree in this, that we perceive only sensible forms; but herein we differ: you will have them to be empty appearances; I, real brings. In short, you do not tend your senses; I do.'

Berkeley is always accused of having personneled a theory which contradicts the evidence of the senses. That a mm who thus disregards the senses must be out of his own, was a ready asswer; ridicule was not slow in retort; declaration gave itself elbow-room, and exhibited itself in a triumplant attitude. It was easy to declare that "the man who seriously entertains this belief, though in other respects he may be a very good mun, as a man may be who believes he is made of glass; yet servly be both a soft place in his understanding, and both been burt by such thinking."

Unfortunately for the critics, Berkeley did not contradict the exidence of the senses; did not propound a theory at variance in this point with the ordinary belief of mankind. His peculiarity is, that he confined himself exclusively to the evidence of the senses. What the senses informed him of, that, and that only, would be accept. He held fast to the facts of consciousness; he placed himself resolutely in the centre of the instinctive belief of markind; there he took his stand, leaving to philosophers the region of supposition, inference, and of occult substances.

The reproach made to him is really the reproach his made to philosophers, namely, that they would not trust to the evidence of their senses; that over and above what the senses fold them, they imagined an occult something of which the senses gave no indieation. 'Now it was against this metaphysical phantom of the brain,' says an acute critic, 'this crotchet-world of philosophers, and against it alone, that all the attacks of Berkeley were directed. The doctrine that the realities of things were not made for man, and that he must rest satisfied with more appearances, was regarded, and rightly, by him, as the parent of scepticism with all ber destlating train. He saw, that philosophy, in giving up the reality inmediately within her grasp, in favour of a reality supposed to be less delasive, which lay beyond the limits of experience, resembled the dog in the fable, who, carrying a piece of ment across a river, let the substance slip from his lows, while with foolish greed he snatched at the sladow in the stream. The dog lost his dimer, and philosophy let go her scene held upon truth. He therefore sided with the vulgar, who recognize no distinction between the reality and the appearance of objects, and, repudiating the bushess hypothesis of a world existing unknown and unpersoised, he recobutely maintained that what are called the sensible shows of things are in truth the very things themselves,'t

^{*} Berd, Joyanny.

¹ Blackwood's Aloy, June 1842, p. 844, art. Berkeley and Liberium, 42-derstood to have been written by Professor Ferrier.

Yeur it is that, owing to the ambiguities of language, Berkeley's throny does seem to run country to the ordinary belief of munkind, because by Matter men commonly understand the Secu. the Tasted, the Touched, etc.; therefore when the existence of Matter is denied, people naturally suppose that the existence of the Seen, the Tasted, and the Touched is denied, never suspecting that Matter, in its philosophical sense, is the ast seen, not tasted, not touched. Berkeley has not, it must be confessed, sufficiently guarded against all ambiguity. Thus he says in one of the opening sections of his Principles of Human Knowledge, that 'It is indeed an apianus sfrequely prevailing encount was that houses, mountains, rivers, and, in a word, all sensible objects, have an existence, natural or real, distinct from their being perceived by the understanding," This is striking a false key-note. It ronses the reader to oppose a coming paradex. Yet Berkeley foresaw and answered the objections which Wimpey, Beattie, Reid, and others brought forward, He was not giving utterance to a caprior; he was not spinning an ingenious theory, knowing all the while that it was no more than we ingenuity. He was an earnest thinker, patient in the search after truth. Anxious therefore that his speculations should not be regarded as more dialectical displays, he endeavoured on various occasions to guard himself from misaporchension.

'I do not argue against the existence of any one thing that we can apprehend either by sensation or reflection. That the things I see with my syes and touch with my hands do exist, really exist, I make not the least quarties. The only thing whose existence I deay is that which philosophers call Matter, or corpored substance. And in doing this there is no damage done to the rest of mankind, who, I dam see, will never mass it.

"If any man thinks we detract from the reality or existence of things be is very far from understanding what has been premised in the plainest terms I could think of. . . . It will be orged that thus much at least is true, sia, that we take away all corporeal substances. To this my answer is, that if the word safetoner be taken in the vulgar sense for a combination of sensible qualities, such as extension, solidity, weight, etc., this we cannot be accused of taking away." But if it be taken in the philosophic sense, for the support of accidents or qualities without the mind; then, in-

An answer to Dr. Johnson's perceptory refutation of Boheloy, vin.
 kicking a stone one if Berkeley over desired that what we called stones expected?

deed, I acknowledge that we take it away, if one may be said to take away that which never had any existence, not even in the imagination." But say what we can, some perhaps may be apt to reply, be will still believe his senses, and never suffer my arguments, however plausible, to prevail over the certainty of them. Be it so assert the evidence of sense as high as you please, we are willing to do the same. That what I see, hear, and find doth exist, i. e. is perceived by me, I no more doubt than I do of my own being: but I do not see how the testimony of sense can be alleged as a proof of anything which is not perceived by sense."

After rending these passages (and more of a sinelar cast night be quoted) in what terms shall we speak of the works written to refute Idealism? Where was the acuteness of the Reids and Beatties, when they tauntingly asked why Berkeley did not run his bead against a pest, did not walk over precipious, etc., as, in accordance with his theory, no pain, no besten limbs could result?? Where was philosophical acumen, when writers could imagine they refuted Berkeley by an appeal to common sense—when they contrasted the instinctive beliefs of mankind with the speculative paradoxes of a philosopher, who expressly took his stand beside common sense against philosophers?

Men trained in metaphysical speculations may find it difficult to concrive the non-existence of an invasible unknowable substratum; but that the bulk of mankind find it almost impossible to concern any such substratum, is a fact which the slightest impairy will verify. We remember a discussion which lasted an entire evening, in which by no power of illustration, by no force of argument, could the idea of this substance, apart from its sensible qualities, be remiered concrivable to our antagonist.

Berkeley therefore, in denying the existence of matter, sided with

^{*} This is not well said. That enbetance was isospined to exact (as a expect of socidents) Berkeley's organized supposes: It is against each an imprinary existence for directs his attacks. Perhaps his means that an image of substance could be formed in the mind; which no one disputes.

^{*} Principles of Human Knowledge, sections 35, 38, 37, 40.

^{2 &}quot;But what is the consequence? I reashed not to believe my senses? I break my bend against a post that comes in my way; I step into a dety housel; and after recently each wise and rational actions I am takes up and elapt into a mallicine. Now I confess I had rather make one of these embless field whom nature imposes upon that of those upor and estimal philosophers who reaches to withhold assent at all this expense. — Real's Japairy, there § 20. This one pussage is as good as a hundred.

common sense. He thought, with the vulgar, that matter was that
of which his senses informed him; not an occult something of
which he could have no information. The table he are before him
certainly existed: it was hard, polished, coloured, of a certain figure,
and cost some gainous. But there was no phanton table lying undementh the apparent table—there was no instable substance supporting that table. What he perceived was a table, and nothing
more; what he perceived it to be, he would believe it to be, and
nothing more. His starting-point was thus what the plain dictates
of his senses, and the senses of all men, furnished.

§ III. Ingarium.

The first step which a philosopher takes in any inquiry is a departure from Common Sense. Reflecting upon what his senses convey to him, he seeks an explanation of phenomena: and it is in proportion to the care with which he analyzes the facts to be explained, that he is usually supposed to be free from the mereextravagamers of speculation. And yet Berkeley's rigorous analysis of the facts of consciousness has obtained for him the reputation of being one of the most extravagant of speculators!

This is the problem: our senses inform us of the existence of certain sensible qualities, such as extension, colour, solidity, etc. But our reason tells us that these qualities must be qualities of something: they cannot exist as more extension, colour, etc.: there must be something extended, coloured, etc. What is that something? The solution given by the philosophers was minimally this; solar that substance is we can never know, because it lies beyond our apprehension; but we are forced to admit it, as a support to the qualities which we do apprehend, as a substance in which sensible qualities inhere. So that, deeply considered, the only reason for inferring the existence of Matter is the accusity for some synthesis of attributes.

Now, what did Berkeley? With very subtle perception of the difficulties of the problem, he buildly solved in by making the synthesis a mental one. Thus was matter wholly got rid of; it had no longer the excuss of being an inference.

The nature of human knowledge is the first object of his inquiry,
It is said that the faculties we have are few, and those designed
by Nature for the support and pleasure of life, and not to peacetrate
into the inward essence and constitution of things. Besides, the

usual of man, being finite, when it treats of things which partake of infinity, it is not to be wondered at if it run into absorblites and contradictions, out of which it is impossible it should ever extricate itself, it being of the nature of infinite not to be comprehended by that which is finite."

This is plainly enough launched at Locke; but the worthy Bishup has no such disposition to sit down in quiet ignorance. He ampects that we may be too partial in placing the fault originally in our faculties, and not rather in the wrong use we make of there. He believes that God is too bountiful not to have placed knowledge within our trach, of which he has given us the desire. Berkeley here forgets the lesson man was taught in Paradisc, where the Trie of Knowledge was placed within his reach, but the truits thereof far-lidden him. "Upon the whole," continues Berkeley, "I am inclined to think that the far greater part, if nor all, the difficulties which have hitherto amused philosophers and blocked up the way to knowledge, are entirely owing to themselves. That we have first mised a dust, and then complain we cannot see."

The pertension on which all philosophy is founded is here openly proclaimed. The consequences of Locke's dectrine are rejected; the premises are retained. Berkeley's account of the origin of knowledge is the same as Locke's, only somewhat more explicitly defined. 'It is evident to any one who takes a survey of the objects of human knowledge that they are either ideas actually imprinted on the senses, or rise such as are perceived by attending to the passions and operations of the mind; or, lastly, ideas found by help of memory and imagination, either compounding, dividing, or barely representing those originally perceived in the attrensit ways.'

Remark, firstly, that the objects of knowledge are said to be idear. This has a paradoxical air to those unaccustomed to netaphysics, yet it is the simple expression of the facts of consciousness. All that the mind can be conserved about is obviously its ideas we are conscious of nothing but the changes that take place is our minds. Whether these ideas are the copies or expressolutions of any things—whether changes in our state are to be attributed to any external cause: this is a question of philosophy—a question which common sense makes no comple of begging. You see before you a flower, and you assume that an external thing resembling that flower exists, and that your sensation is produced by it, as a reflection in a mirror is produced by an object out of the mirror

But disc deeper into consciousness; intercogate yearself, and you will find that the comparison of the mirror is an assumption made only to raphrin the facts of consciousness, not given in those facts. Moreover, granting the assumption, you will then make the mind immediately conversant with its ideas only; for assuming that objects reflect themselves in the mirror, the mirror itself knows only the reflections; these it knows insentiately; the objects it knows socially, i.e. through the reflections. Thus is Berkeley keeping rigorously to the facts of consciousness when he says that the 'objects of knowledge are ideas.'

Secondly, remark on Berkeley's use of the word idea, which stands both for sensation and idea. We cannot but regard this confusion of language as the cause of no little misapprehension of his dactrines. It is well therefore to warn the reader thereof. Now to consequences. 'That neither our thoughts, nor passions, nor the ideas formed by our imagination, exist without the mind, is what everybody will allow; and to me it is no less evident that the various sensations or ideas imprinted on the sense, however blended or combined togother (that is, whatever objects they comgood, cannot exist otherwise thus in a mind perceiving them. . . . The table I write on, I say, exists, i. v. I see it and feel it, and if I were out of my study I should say it existed; meaning thereby that if I was in my study I might perceive it, or that some other spirit netually does perceive it. As to what is said about the existence of mathinking things, without any relation to their being pererised, that is to me perfectly unintelligible. Their esse is percisinor is it possible they should have any existence out of the minds or thinking things which perceive them."

It is in this last paragraph that the kernel of his system lies. He had identified objects with ideas: having done so, it was easy to prove that objects could not exist without a perceiving usind in which to exist as ideas. "For what are the objects but the things which we perceive by sense?" Realism assents: objects are what we perceive. "And what, I pray you," continues Berkeley, "do we perceive. "And what, I pray you," continues Berkeley, "do we perceive besides our own ideas or sensations?" Realism hesitates; extrainly the mirror has nothing immediately present to it, besides the reflections. "And is it not plainly represent to it, besides the reflections. "And is it not plainly represent," triumphantly continues Efention, "that may one of these ideas, or any combination of them, should exist unperceived?" Realism has no answer to offer. It is in a dilemma from which there is apparently no racape.

The supposition of the existence of matter is bunded on the

doctrine of abstract (dear (against which Berkeley wages war), Por can there be a nicer strain of abstraction than to distinguish the existence of sensible objects from their being perceived, so as to conceive them existing unperceived? Light and reloans, heat and cold, extension and figures-in a word, the things are see and feelwhat are they but so many sensations, notions, ideas, or impressions on the sense) and is if not impossible to reperate, rees in thought. may of these from percention? For my part, I might as easily divide a thing from itself. I may indeed divide in my thoughts. or conceive most from each other, those things which perhaps I never perecived by sense so divided. Thus I imagine the truck of the human body without the limbs, or conceive the smell of a rose without thinking of the rose itself. So far I will not dear that I can abstract, if that be properly called elistraction which estends only to the conceiving separately such objects as it is possible may really exist, or be actually perceived asunder; but my conceiving or inagining power does not extend beyond the possibility of real existence or perception. Hence, as it is impossible for me to see or feel anything without an actual sensation of that thing, so it is impossible for me to conceive in my thoughts any sensible thing or object distinct from the sensation or perception of In truth, the object and the sensation are the same thing, and cannot therefore be abstracted from one another.

"In a word, all the choir of heaven and furniture of earth—all those bodies which compose the mighty frame of the world—ham not any subsistence without a mind: their case is to be percental or known; and consequently, so long as they are not untually perceived by me, or do not exist in my mind, or that of any other created spirit, they must either have no existence at all, or circ subsist in the mind of some eferred spirit. . . .

'Though we hold indeed the objects of sense to be nothing the but ideas which cannot exist imperceived, yet we may not leave conclude they have no existence except only while they are perceived by us, since there may be some other spirit that pervises them, though we do not. Whenever bodies are said to lase no existence without the mind, I would not be understood to meet this or that particular usind, but all minds whateverse. It does not therefore follow that bodies are unmidiated and created every moment, or exist not at all during the intervals between our perception of them.

'I am content to put the whole upon this issue; if you can bet

conceive it possible for one extended morable substance, or in general for any one idea, or anything like an idea, to exist others wise than in a mind perceiving it, I shall readily give up the cause; I shall grant you its existence, though you cannot either give me a mason why you believe it exists, or assign any use to it when it is supposed to exist. I say the bure possibility of your opinion being true, shall pass for an argument that it is so.

"But, say you, surely there is nothing ensire than for me to imagine trees in a park, or books in a closes, and nobody by to preceive them. I assert, you may so: there is no difficulty in it. But what is all this, I beseech you, more than fearing in your wind certain ideas which you call books and trees, and at the same time omitting to fearer the idea of any one perceiving them?

'But do not you yourself perceive or think of them all the while?'
This therefore is nothing to the purpose; it only shows you have
the power of imagining or framing ideas in your mind, but it does
not show that you can conceive it possible the objects of your
thought may exist without the mind. To make out this, it is
necessary that you conceive them existing superceived or unthought
of, which is a manifest repugnancy. When we do our utmost to
touceive the existence of external bodies, we are all the while only
contemplating our own ideas.'*

The last very remarkable passage must have been overlocked by the critic before mentioned, otherwise he would not have said that the 'knot which Berkeley loosesed, but which he certainly slid not explicitly untie,' was to be resolved, for the first time, by the arguments he there beings forward. Berkeley had untied the knot, explicitly, satisfactorily; and that too in the same way as his critic.†

The distinction between prisonry and accomfory qualities, Berkeley easily relates, and shows that the same arguments which make the accordary qualities to be only affections of the mind, may be applied to the primary qualities.

Having buttered down almost every objection, trivial or serious, that could be offered, Idealism iterates its fandamental principle:—All our knowledge of objects is a knowledge of ideas; objects and ideas are the same. Erge, nothing exists but what is perceived.

Realism espits a keepbale. These ideas, with which we admit

The foregoing passages are all taken from the Principles of Human Knowledge, sections 5, 5, 52, and 23.

⁺ See the article in Blackwood, p. 817, or req.

the mind to be solely conversant, are but the ideas (images) of extain things: these things exist independently of being perceived, though their ideas cannot. Berkeley foresaw this also, "But, any you, though the ideas themselves do not exist without the mind, yet there may be things like them whereof they are copies or resemblances, which things raint without the mind in an unthinking substance. I conver, an idea can do file eathloay but on files: a colour or figure can be like nothing but another colour or figure. Again, I sak whether those supposed originals or external things, of which our ideas are the pictures or representations, by themselves perceivable or no! If they are, then they are ideas, and we have gained our point; but if you say they are not, I appeal to any one whether it be sense to assert a colour is the something which is invarible; hard or soft, like something which is intargable?' (Sert. 8.)

Bealism is without a sleadow of an answer. The philosophers are powerless against a theory so defeated. No wonder that Idealism should have been prenounced irrefutable; the meapons were not forgod, or, at any rate, were not in the namoury of philosophy, which could successfully assail a forcess built on such a position. Dr. Reid's attempt we shall examine by-mid-by.

As far as the simple facts of Consciousness extend, the analysis given by Berkeley is unimpeachable, unless we deny that Consciousness is insureficitely affected by sensations, and assers that it is insureficitely affected by external objects; but as mutaphysical ever took up this position, for it would lead him to maintain that Consciousness is nothing but these very sensations, which are produced in the organism by the action of external influences; and this would be getting rid of the substratum Mind, in order to rescue the substratum Matter. No metaphysician therefore ever did or could, logically, object to Berkeley's fundamental position; but only tried to clude it, or make it open into other issues.

Given, however, the facts, there comes the question of inferences. It has been well said by Mr. Herbert Spencer that the dexial of an external world consists of a series of dependent propositions to be disproved. If the grounds of our belief in an external world are questionable, what better grounds have we for the helief that the external world is a more subjective phenomenous?

Permiples of Psychology, p. 30.

We are to settle whether it is a more plausible hypothesis that ideas are presimately produced in us by the more Will of the Creator, whose will is effectiated by certain law; or whether the ideas are presimately produced in as by external objects, which exist quite independently of us. This question, remember, is one which admits of no proof. It is not a question of fact, but of plansibility. It is not to be decided by common sense, but by analogical reasoning. Our hosselving extends no further than our ideas. Our inforcement can be nothing more than inferences.

Berkeley has far better reasons for his inference than his critics imagine. He could not see the force of the argument which made. Matter a necessary postulate. That we could have sensations and aleas without the presence of objects is manifest from the fact that we do often have them so, in streams and frencies. If therefore matter is not always necessary for the production of ideas—if ideas can be sometimes produced without the presence of external objects—the pretended necessity, which alone forms the argument for the existence of matter, is done away with.

"But though," he says, "we might possibly have all our sensations without bodies, yet perhaps it may be thought easier to conceive and explain the manner of their production by supposing external bodies in their likeness rather than otherwise, and to it might at least be probable there are such things as bodies that excite ideas in our mands. But neither can this be said, for though we give the Materialists their external bodies, they, by their own confession, are never nearer the knowing how our ideas are produced, since they our thrusolves mable to comprehend in solar assasses body our set upon yeirs, or how it is possible it should imprint an idea in the mind."

We have here the difficulty stated, which most Dualists (those who maintain the existence of spirit and matter, as distinct substances) have not been sufficiently alive to; and one which gave rise to Leibnitz's theory of pro-established harmony, and to Makebrasche's theory of our seeing all things in God. This difficulty is indeed insuperable. It is easy to talk of the spirit being a surror to which the uniture reflects high. Try for an instant to insignise a substance such as matter reflecting itself in, or acting upon, another substance having to one property as common with it. You cannot. Nor is this all; you cannot even imagine two substances so distinct as matter and spirit are defined to be.

Berkeley then is right in triumphing over Realism and Dualism.

Right in saying that if he were to accord them the existence of matter, they could make no use of it. The subject would remain as dark as before, matter throws no light on it. He maintains that our ideas are produced in as in conformity with the laws of Nature. These laws have been ordained by God. To suppose that matter is the more occasional cause—the reliefs through which the laws of Nature specials—is granutous. The agency of the Creator is more simple and direct. He had no need of creating first laws, and afterwards matter, through which these laws should come into effect. He created the laws about; they are upon us as they were destined to art, and without the superfluous aid of matter, which is a mere go-between.

Now, as an inference—as a scientific hypothesis—for thoroughly acquainted with the question, and with the data on which it was founded, can, we think, deny that this of Barkeley is many degrees superior to the hypothesis of Dudism. While philosophers teach that there are two distinct eternal substances, which they name Spirit and Matter, Berkeley teaches that there is only one substance, viz. Spirit. With this one substance he can construct the world. According therefore to the fundamental rule in philosophy, that 'Estities or existences are not to be multiplied unless upon necessity' (entire now and multiplicands prates accessitates), the introduction of a second substance, viz. matter, is superfluous, or worse. Of the existence of matter we have no proof whatever: it is a more inference; it is inferred in order to explain the phenomena and what phenomena? those of perception—i. e. the phenomena of the thinking substance.

If, then, Berkeley is more rigorous in his analysis of facts, and more ingenious and plausible in his hypothesis, than his untagonists suppose, shall we pronounce his Idealism satisfactory and true?

Hume said of it that it admitted of no mover, but produced no consistion. And we have uset with no final refutation of it. Yet, inasmuch as it is the irresistible belief of mankind that objects are not dependent either upon our preception of them, or upon the perception of any other mind, for their existence—that objects mist per se, and would continue to exist if all minds were annihilated—Berkeley's theory never can produce consistion. Real therefore was right in standing by this universal and irresistible belief. He was regregiously arong however in supposing that he answered Berkeley by an appeal to this irresistible belief. It does not follow that a belief which is irresistible must be true. This maxim, we

loadly proclaimed by the Scotch school,* is refitted by several well-known facts in philosophy. Thus—to take the most striking example—the belief that the sun revolved round the earth was for many centuries irresistible, and false. Why may not Berkeley have been a metaphysical Coperaions, who, by rigorous demonstration, proved the belief of mankind in the existence of matter to be irresistible and false? Reid has no answer to give. He can merely say, "I side with the valgar;" but he might have given the same answer to Coperaions. Many illustrious near (Bacon among them) ridicaled the Coperaion theory; but all the dogmatism, ridicale, and common sense in the world could not affect that theory. Why, we repeat, may not Berkeley have been a metaphysical Coperations?

To prove that he was not, you must prove his reasoning defective; to prove this, you must show wherein his error lies, and not wherein his theory is at variance with your belief. All that your irresistible belief amounts to, is that of a strong, a very strong, presumption against the truth of that which opposes it. Reid, in accepting this presumption as a proof, was in the right so long as Berkeley's reasoning was not strong enough to overcome it; but singularly wrong in supposing that the presumption was a refutation.

Berkeley's main position is, that the objects of knowledge ove teless, and nothing but ideas. The position is incontrovertible. The conclusion therefore: all known knowledge can only be the knowledge of ideas, and of nothing but ideas, is equally incontestable. Not less so the second conclusion: objects being idealified with ideas, and see having as idea of an object but as it is perceived, the uses of objects to us is rewrite.

In admitting all this, what do we admit? Simply that human knowledge is not the 'measure of all things.' Objects to as can never be more than ideas; but are we the final measure of all ex-

^{*} Especially by Dr. Brown, who says that the 'sceptical argument for the new-customer of an external world, as a more play of reasoning, admits of no reply. The only reply he makes is, that the belief is irresistible. Humo that already admitted that the fielder was irresistible; the whole scope of his philosophy was to prove it both irresistible and folio. How about then to appeal to the belief? Knot tonly observes, in the Preface to bis Kristi, 'Admitting bleadon to be so disagreess as it really is, it would still remain a share to philosophy and reason to be firred to ground the existence of an external world on the marriy without of belief.' The more so us the fact of belief had never been questioned. The question was, Is the belief well grounded?

intence? It was the dogum of the Sophist that Man is the neasure of all things. It should not be the dogum of the solar thinker. Because we can only base objects as ideas, is it a proper conclusion that objects only said as ideas? For this conclusion to be rigorous, we must have some proof of our knowledge being the absolute standard of truth, instead of the standard of the relation things bear to our intellect.

The Idealist will say, 'If you counst know anything beyond your oleas, why do you infer that there is maything?"—A question not easily answered. He will increase say, 'I defy you to contribe anything existing imperented. Attempt to imagine the existence of matter when mind is absent. You cannot, for in the very net of imagining it, you include an ideal percipient. The trees and mountains you imagine to exist away from any perceising mind, what are they but the very ideas of goes mind, which you transport to some place where you are not? In fact, to separate existence from perception is radically impossible. It is food's synthesis, and man cannot mido it."

To this we answer, it is very true that, insumuch as our knownledge of objects is identical with our ideas, we can never, by may frenk of thought, imagine an object spart from the conditions under solich we have it. We are forced by the laws of our nature to invest objects with the forms in which we perceive them. We cannot therefore conceive anything which has not been subject to the laws of our nature, became in the very set of conception those laws come into play. But is it not a very different proposition to say, "I cannot conceive things otherwise than according to the laws of my nature," and to say, "I cannot conseive things otherwise, consquently they cannot exist otherwise"? The Idealist here assumes that knowledge is absolute, not relative—that man is the measure of all things.

* See this argued in a masterly manner by the critic in Workwood before

quoted.

[†] When in perception, says Schelling, "I represent an object, about and representation are one and the error. And simply in this one inability to descriminate the object from the representation during the set, lies the consistion which the common sense of mankead has of the wellty of external things, though these become known to it only through the representations." (Blue an einse Pfolia, dor Natur, Einsteing, p. vix., quoted by Sir W. Hamibon.) This is anti-operable, but it is only mying that our knowledge of things is subject to the conditions of knowledge. Because to cannot descriminate between the object and the representation, it is no proof that there is no distinction between these.

Perception is the identity (in the metaphysical sense of the word) of the ego and the non-ego-the tertions qual of two united forces; as water is the identity of oxygen and hydrogen. The ego can never have may knowledge of the non-ego, in which it (the ego) is not indiscolably bound up; as oxygen never can units with lordrogra to form water, without merging stielf and the hydrogen in u tertion said. Let us supose the oxygen endowed with a consciousness of its changes. It would attribute the change sof to hydrogen, which is necessarily hidden from it, our to souter, the only form under which hydrogen is known to it. In its consciousness it would find the state named water (percention), which would be very unlike. its own state (the ego); and it would suppose that this state, so unlike its own, was a representation of that which raused it. We see then, that although the hydrogen can only exist for the exygen-(in the above case) in the identity of both as water, this is no proof. that lightrogen does not exist under some other relations to other forces. In like manner, although the non-ego caunot exist in relation to mind otherwise than in the identity of the two (perception): this is no sort of proof that it does not exist in relation to other beings under quite different conditions.

In exactusion, we admit, with the Idealists, that all our Austoledge of objects consists in our ideas. But we cannot admit that all existence is limited by our knowledge, merely on the ground that when we would conceive anything existing, we are forced to concrive it in accordance with the laws of our conceptive faculties. We admit with the Idealists, that all our knowledge is assirefore, But we do not admit that what is true subjectively is true objectively. We believe in the existence of an external world unite independent of any percipient; not because such is the obvious and universal belief, but because the arguments by which Idealism would controvert it are estimated by the assumption of knowledge being a criterion of all existences. Idealism agrees with Realism in placing reliance on the residence of sense; it argues however that incomets as our knowledge is confined to ideas, we have no right to assume anything beyond ideas. Yet it also is forced to assume something as the cause of ideas; this cause it calls the Will of the Creator; and this is an assumption. The real dispute therefore should be concentrated on this point: Which assumption is more consonant with our irresistible belief, the assumption of an external matter salike our sensations, yet the cause of them, or the monmution of a providential scheme, in which our sensations are

the effects of the operation of Divine laws, and in which matter plays no part? The meser cannot be dubious. The former assumption, as more consonant with universal belief, must be accepted.

Berkeley, we believe, failed as a metaphysical Coperaicus, because the assumption which he coposed to the universal belief was less consount with that belief than the assumption it was ment to replace. Had Copernious not started an hypothesis which however contradictory to the senses, nevertheless afferded a much better explanation of celestial phenomena than was possible on the old hypothesis, he would not have been listened to. Berkeley's assimplified, if conceded, carries him to deeper than the old assumption. Idealism explains nothing. To accept it would be to resusasce a universal belief for a more hypothesis. But that Berkeley was a deep and remarkable thinker must be readily conceded; and be failed, as the greatest Philosophers of all times Love failed, not because he was weak, but because Philosophy was impossible.

Those who have followed the course of this History with attention to its mare! (so to speak) will not full to observe how Berkeley's Idealism is at bottom but the much decried system of Spinous, who taught that there was list one cooner in the universe, and that one was Substance. Berkeley also taught that there was but one, and that one was Thought. Now call this One what you will, the result is the same; speculatively or practically. You may have certain degrading associations attached to the idea of substance; or certain exalted associations attached to that of spirit. But what difference can your associations make with respect to the real nature of things?

One great result of Berkeley's Ishours was the lesson he taught of the vanity of entological speculations. He paved the way to that scepticism which, gulf-like, yawns as the terminal road of all

consistent Metaphysics.

FIFTH EPOCH.

THE ARGUMENTS OF IDEALISM CARRIED OUT INTO SCEPTICISM.

CHAPTER L.

HUME.

& I. Lerk or Hour.

MR. BURTON'S simple and excellent biography* would furnish in with materials for a pleasant memoir, could we here afford the requisite space; but we must content ourselves with referring the reader to that work, and with merely recording the principal dates and events of an uneventful life.

David Hume was been at Edinburgh, 20th April, 1711; the pringest child of a poor laird of good blood. He was an orphan before his education was completed. His guardians first thought of the profession of law, but, owing to his repugnance, he was absolved from that career, and was placed in a Bristol counting house, where he did not remain long. On coming of age he found himself in possession of a small property, too small for honomable subsistence in England, but large enough for France, and to Rheims he went; from thence to La Flèche, where the Jesuits' college and library were great attractions to the studious youth; and there he passed several years in solitary study.

A great ambition moved him: he was to accomplish for moral science a revolution analogous to that which Bacon had effected in physical science. His Treatise so Humas Nature, which appeared in 1787, and which fell still-born from the press, was announced us an attempt to introduce the experimental method into reasonings on moral science. We need scarcely point out the profound misconception of the Experimental Method here implied; nor is it

^{*} The Life and Correspondence of David Hone, from the Popers Inquesthed to the Boyal Society of Edinburgh By John Will Poston. 2 role.

480 0000

necessary to show at any length that there was no newdy whatever in Hume's attempt to test psychology by experience.

In 1743 appeared the first part of his immortal Essays, and in 1747 he accompanied General St. Clair, as secretary, in the embassy to Varana and Turin. In 1752 he published his Published Discourse and the Inquiry concerning the Principles of Morols. The appearament of Librarian to the Faculty of Advocates in Edinburgh—the salary of which he generously gave to the poor poet Blackieck—pheed at his disposal a fine collection of books; and this suggested the undertaking which has long been held his greatest title to fame—the History of England, the first volume of which appeared in 1754.

For the literary historian there are two payment episods in the life of Humo. The first is the oration given to the philosopher in Paris, whither he had accompanied the Marquis of Hernford; the accord is his friendship and quarrel with Roussean. We cannot pause to dwell on either.

Home shed in the spring of 1776, leaving a name imperiduble in our literature, although it is a name attached to opinions which have roused, and will continue to rouse, the most veherant opposition. It should never be forgotten, moreover, that, in spite of Hume's opinions, so wise and good a man as Adam Smith could publish write of him, 'Upon the whole, I have always considered him, both during his lifetime and since his death, as approaching as nearly to the idea of a perfectly wise and virtuous man, as perhaps the nature of human finish will permit.'

§ II. Huma's Scarmann.

The marrellous arminess and subtlety of Hume have never been denied; and his influence upon speculation has been aided as much by the alarm his doctrines excited, as by the suggestity with which they were upheld. If Berkeley met with no refuters, Hume could meet with none. Antagonate have generally been compelled to admit that the sceptical reasoning was unmasurable.

Locke had shown that all our knowledge was dependent upon experience. Berkeley had shown that we had so experience of an external world independent of perception; not could we have any such experience. He pronounced matter to be a figurent. Home took up the line where Berkeley had cost it, and fining it once more into the deep sea, endeavouring to fathour the repetitive of beingProbing disper in the direction Berkeley had taken, he found that not only was Matter a figurest, Mind was a figurest also. If the scendt substratum, which men had inferred to explain material phenomena, could be denied, because not founded on experiency; so also, said Hume, must we deay the occult substratum (mind) which men have inferred to explain mental phenomena. All that we have any experience of, is impressions and ideas. The substratum of which these are supposed to be impressions, is occult—is a more inference; the substance is which these impressions are supposed to be, is equally occult—is a more inference. Matter is but a collection of impressions. Mind is but a succession of impressions and ideas."

Thus was Berkeley's degmatic Idealism converted into Scepticism. Hume, speaking of Berkeley, says, 'Most of the writings of that very ingenious philosopher form the best lessons of scepticism which are to be found either among the succent or modern philosophers, Bayle not excepted. He professes however in his title-page (and undoubtedly with great truth) to have composed his book against the Sceptics, as well as against the Atherists and Free-thinkers. But that all his arguments, though otherwise intended, are in reality merely aceptand appears from this, that they admit of meanwar, and produce no conviction.'

Bennik also that Hume's scepticism, though it reduces philosophy to a singular dilemma, via that of either refuting the sceptical arguments, or of declaring itself and its pretensions to be cain and baseless, ascertheless affects in no other way the ordinary judgments or actions of mankind. Much stupid ridicule and friedous objection have been, and probably will continue to be, brought against Hume. Read, from whom one might have expected amouthing better, is surprised at Hume's pretending to construct a science upon human nature, when the intention of the whole work is to show that there is neither human nature nor science in the world. It may perhaps be unreasonable to complain of this readoct in an author who neither believes his own existence our that of his reador, and therefore could not mean to disappoint him, or length at his credulity. Yet I cannot imagine that the author of the Treation se Hesses Nature is so sceptical as to plead this apolicy.

^{*} Looke had already above that we are as ignormal of spirit at of substance. We know paired only in its manifestation; we control know it purse as a substantian. Huma's argument therefore had a first fundation in philosophy. He only concluded from admitted previous.

182 HUME.

He believed, against his principles, that he should be read, and that he should retain his personal identity, till be reaped the horser and reputation justly due to his metaphysical accurant. He continues further in this strain, drugging in the old error about Pyrrho busing inconsistently here renerd to sugar by his cook, 'who probably had not reasted his dinner to his mind,' and compares this forgetfulness to Hume's every 'now and then relapsing into the faith of the vulgar."

If this was meant for banter, it was very poor banter; if for argement, it was pitiable. But if such arguments appeared valid to a thinker of Reid's reputation, it is reasonable to suppose that inforior men may also receive them as conclusive. Hume shall therefore be allowed to speak for himself; and he shall speak in the language of that very Treaties on Human Netwee to which Reid alludes:—

Should it be here taked me whether I sincerely mount to this argument which I seem to take inch pains to inculcate, and whether I be really one of these sceptics who hold that all is uncertain, and that our independ is not in easy thing possessed of any measures of truth and falsehood, I should reply that this question is entirely superfluous, and that neither I nor any other person was ever sincorely and constantly of that opinion. Nature, by an absolute and ancostrollable necessity, has determined us to judge as well as to herathe and fixel; nor can we my more forbear viewing certain obsects in a stronger and fuller light upon account of their customary connection with a present impression, than we can hinder ourselves from thinking as long as we are awake, or areing the currounding bodies when we turn our erro towards them in broad samiling, Whoever has taken the point to refute the earlis of this total scepticism. Les really disputed without an antagonist, and endeasoured by arguments to establish a faculty which Nature Ann autocoloutly imployeed to the mind and rendered useroidable,

My intention then in displaying so carefully the arguments of that finitestic seet, is only to make the Beader sensible of the truth of my hypothesis, that all our reasonings concerning causes and affects are derived from nothing but eastom; and that belief is more properly an act of the sensitive than of the cogitative part of our natures. . . If belief were a simple act of the thought without any peculiar manner of conception; or the addition of force and viracity, it must usfallably destroy itself, and in every case terminate

^{*} Japairy, Introd. i. § 5.

in a total suspense of judgment. But us experience will sufficiently convince my one, that although he finds no error in my arguments, yet he still continues to believe and think and remon as usual, he may safely conclude that his reasoning and belief is some sensation or peculiar manner of conception, which 't is impossible for mere ideas and reflections to destroy.'

It has always struck us as an illustration of the great want of emdoor displayed by Hume's opponents, that they never quoted this very significant and explicit passage; indeed, we never remember to have seen the passage quoted by any one. Let us ask, what does the foregoing declaration amount to, if not to the boosted 'common-sense view,' that our belief in the existence of matter is instinctive, fundamental? Does not Dr. Brown's admission that the sceptical argument is unmoverable as a mere play of resoning, rescale all that Hume requires? Does not Dr. Brown's conclusion, that we are thrown upon 'irresistible belief' as our only relige against scepticions, equally accord with Hume's explicit declaration that we do believe and cannot help believing, though we can give no reason for the belief?

'Thus the sceptic,' Hume adds a little further on,' still continues to trusted and believe, even though his asserts that he cannot defend his crason by musen; and by the same rule he must assert to the principle concerning the existence of body, though he cannot pretend by any arguments of philosophy to maintain its verseity. Nations has not left thir to his choice, and has bouithess returned it an affair of too great importance to be trusted to our uncertain reasonings and speculations. We may well ask, what causes indeed or to believe in the existence of body? but 't is in tain to ask whether there is body or ast? that is a point which we must take for granted in all our reasonings.'

After this, let so more be said about Hume's practical inconsequences. Locke before him had clearly enough seen and signalized the impotence of the attempt to penetrate beyond phenomena, and had, with his usual culm wisdom, connected men to 'sit down in quiet ignorance.' He knew the task was hopeless; he knew also that it was trivial. God has given us the means of knowing all that directly concerns us, a certainty which suffices for all our wants. With that, reasonable men will be content. If they seek more, they seek the impossible; if they peak their speculations deeper,

^{*} Harmer Nation, part in § 1 p. 250.

181 HUME,

they end in scripticism. It was the philosophical missess of Hume (to adopt a phase in vogue) to show how incritably all such specu-

lations, if consistent, raded in scepticism-

'Men,' he says,' are carried by a matural instinct or perposession to repose faith in their senses. When they follow this blind and powerful instinct of setture, they always suppose the very images presented to the senies to be the external objects, and werer extertain cay surpicism that the one are nothing but representatives of the But this universal and primary opinion of all men is soon destroyed by the slightest philosophy, which teaches us that nothing can row be present to the mind but an image or perception. So far then we are necessitated by conseins to contradict the presery isofineds of Notore, and to embrace a new system with regard to the avidence of our senses. But here philosophy finds herself extremely embarrassed, when she would obviate the entils and objections of the scepties. She can no longer plend the infallible and irresistible instinct of nature, for that led us to quite a different system, which is neknowledged fallible, and even erroneous; and to justify this portended philosophical system by a chain of clear and convincing organical, or even any appearance of argument, exceeds the power of all human capacity.

Do you follow the instinct and proposities of anture in ascenting to the verneity of the senses? But these lead you to believe that the very perception or sensible image is the external object—(Idealian).

'Do you disclaim this principle in order to embrace a more rational opinion, that the perceptions are only representations of something external? You have depart from your natural propensities and more obvious scattiments; and yet are not able to satisfy your reason, which can mover find any convincing argument from experience to prove that the perceptions are connected with external objects'—(Scripticism).

This is the dilemma to which Philosophy is reduced: out of it there is no escape; and Humo deserves the gratitude of mankind for having brought philosophy to this pass. Mankind however has paid him with reprobation. As the whole course of this History has been occupied in tracing the ineritable result of all Philosophy to be precisely this much abused sceptionin, our readers will be prepared for a different appreciation of Hums. Let us therefore endeavour to define the nature of this sceptiosism, which has caused such great alarm. Sceptiosism, meaning doubt, and being frequently used to signify religious doubt, has alarming associations attached to it. To wall a seem a sceptic is to call him a heretic. And, unfortunately for Hume's philosophical reputation, he was a sceptic in religiou as well as in philosophy, and mankind have consequently identified the former with the latter.

Now, philosophical scepticism can only mean a doubt as to the possibility of Philosophy;—in other words, a doubt only on one particular subject. If I accept the consequences to which the doctrine of Hume leads me, am I forced to suspend my judgment, and to present me and subjects uncertain? or am I only to pronounce coverabjects uncertain? The latter is clearly the only opinion I can entertain. If but then are the questions on which I must be content to remain in darkness? Locke, no less than Hume, has told as I All which relate to Philosophy—which protein to discuss the nature and essences of things.

This scepticism, the reader must acknowledge, has nothing very alarming in it, except to Philosophy. It is maintained by the cost majority of thinking men—some from conviction, athers from a rague sense of the fotility of outdogical speculation. Only the bad passons roused in discussion could pretend to confound it with hereby. This Scepticism indicates the boundaries of inquiry. It leads us from impossible attempts to fly, to instruct us how accurely we may run. It destroys Philosophy only to direct all our energies towards positive Science. In the words of Goethe, Let us not attempt to demonstrate what cannot be demonstrated! Somer or inter we shall otherwise make our unisorable deficiencies more glaring to posterity by our so-called works of knowledge.

Hume was a sceptic; and, consequently, early in life crossed desoting his marvellous armeness to any of the questions agitated in the schools. His Essays and his History were excellent products of this change of direction; and although he did devote a portion of the Essays to philosophy, yet it was but a portion, and one which gave a more popular and elegant exposition of the principles of his first work.

§ III. HUSE'S THEORY OF CAUSSTRON.

It is enstonary to speak of 'Hume's theory of Camution,' and to bestor no inconsiderable actionary upon him on its occurnt. But, in the first place, the theory is not peculiarly his; in the second place, his application of it to the question of Miracles, which has ISG HUMA

excited so much releasent controversy, reduces itself to 'this very plain and harmless proposition, that whatever is controlletory to a complete induction is incredible. That such a maxim as this should be either accounted a dangerous heresy, or micraken for a recondite truth, speaks ill for the state of philosophical speculation on such subjects."

The theory may be thus briefly stated. All our experience of causation is simply that of a constant succession. An autocedent followed by a sequent-one event followed by another; this is all that we experience. We attribute indeed to the autocolent, a power of producing or causing the sequent; but we can have no experience of such a power. If we believe that the fire which has barned as will burn as again, we believe this from labit or custom; not from having perceived my power in the fire. We believe the future will resemble the past, bucause eastorn has taught us to roly upon such a resemblance. 'When we look about us towards external objects, and consider the operation of causes, we are never able in a single instance to discover any power or necessary connection-any quality which hinds the effect to the cause, and renders the one an infallible consequence to the other. We only find that the one does actually in fact follow the other. The impulse of one billiard-hall is attended with motion in the second. This is the whole that appears to the outward senses. The mind feels no sentiment or inward impression from this succession of objects; consequently there is not, in any single instance of cause and effect, meething which can suggest the idea of power or necessary connection.'t This is the whole of his theory. His explamtion of our belief in power, or necessary connection, is that it is a matter of habit.

I know not whether Hume ever read Glimvill's Sequis Scientifics. The title was one to attract him. At any rate, Glimill had elevely enough stated Hume's theory, e.g. 'All knowledge of cames is deductive; for we know of none by simple consisten, but through the mediation of their effects. So that we cannot conclude mything to be the cause of another had from its coefficiently accompanying it; for the covariety itself is insensible.' Malchrusche had also anticipated it; and so had Hobbes. The language infeed of the latter is so similar to the language coupleyed by Hume, that I agree with Dugald Stewart in believing Hume to have becomed it

from Hobbes. 'What we call experience,' says Hobbes, 'is nothing rise but remembrance of what antecedents have been followed by what consequents. . . . No man can have in his mind a conception of the future, for the fature is not yet; but of our conreptions of the pest we make a future, or rather call post future relatively. Thus, after a man has been accustomed to see like antecedents followed by like consequents, whenoever he seeth the like come to pass to anything he had seen before, he looks thereshall follow it the same that followed then.'

This theory of Causation has been hotly debated, partly because of the 'consequences' which some have seen, with alarm, to be deducible from it (for opinious are judged of more by their supposed consequences than by their presumed truth); partly also because Hume has not stated it with the elements which prevents misunderstanding. It is only to the latter point we can here attend.

When Hume asserts that experience gives no intimation of any excuention between two events, but only of their invariable conjugation,-when he says that the mind cannot perceive a causal nexus, but only an invariableness of antecedence and sequence, he is contradicted, or seems to be, by the crosciousness of his readers. They declare that, over mid above the fact of sequence, there is always un infilmation of power given in every causation, and this it is which distinguishes coused from casual sequence, -connection from mere conjunction. The fire burns paper because there is some power in the fire to effect this change. More autocodence, even if invariable, cannot be sufficient, or else day would be the cause of night, the flish of lightning would be the cause of the thunder-peal. Swillow by close to the earth some little while before the min falls; but no one supposes the flight of the smallows causes the fall of the min. In every case of canonico there must be an element of power-a capacity of producing the observed charge-a nexts of some kind, over and above the more yaxtapositiva of bodies. If diamend will out glass, it has a power to do so; the chargest knife is without this power.

So reason Home's antagonists. Nor do I think they are finally answered by resolving the idea of power into mere invariableanse of antecedent and sequent; for they may reply that the 'invariableness' itself is deduced from the idea of power: we believe the fire will invariably burn the paper because it has the power to do so, because there is a real nexus between fire and the combustion of 188 HEME

paper; only on such a belief can our expectation of the future re-

combling the past be securely founded.

The enlinery belief of mankind in the existence of something more than more autocolonic and consequence, is therefore a fact. This fact Hume and others omit. Because they cannot perceive the power, they declare that we have no belief in it. Hume insists upon the impossibility of our perceiving power-of our perceiving may accoming connection between two events. But, my thou who oppose this theory, Although we cannot perceive the power, we are forced to believe in it; and this belief is not a matter of contem, but is given in the very facts of conscionences. We perceive that soor power is at work producing effects; the precise solwe of this power, indeed, we cannot perceive, because we never can know things per ac. When a spack ignites gaupowder, we perceive u power in the spark to ignite grapowier; select that power is, we know not; we only know its effects. But our agrarance is equally great of the guspowder; what it is we know not; we only know its appendance to us. It might as well be said that we believe in the grinpowler from custom, bines we really know nothing of it per se,) as that we believe in the power of the spark to ignite gunponder from custom, since we really know nothing of power per se. We know nothing you se?

I have marshalfed the arguments, with as much force as I could number, into so small a field, in order to being into appreciable distinctures the source of the opposition to Hanne's theory on the parof many who have no doctrinal district towards it. Before attempting an elecatation of the difficulty, it will be needed to consider the grounds of our belief in causation. As it is a fart that all menbelieve in some power involved in every causal act, we have to ask, Is that helief well founded?

Two schools at once present themselves. The one (that of Hume) declares that the belief has no good grounds; it is a matter of custom. If I believe the sun will rise tomorrow, it is because it has always rises. If I believe that fire will hum in future, it is because it has always humed. From bahit I expect the future will rescuble the past: I have no proof of it.

The other school declares that this helief in consution ' is an intimize conviction that the future will resemble the past.' This is the language of Brief and Stewart. Dr. Whereil would have as admit the belief as a fundamental idea—a necessary truth independent of and imprior to all experience.

Both explanations we take to be very incompetent. Custom or habit can escritially large nothing whatever to do with it, because our belief is as strong from a single histonic as from a thousand, When many uniform instances appear,' says Honeo, and the same object is always followed by the same event, we then begin to extertain the notion of cause and connection. We then feel a new sentiment, to wit, a confessory casacctive in the thought between one object and its usual attendant; and this sentiment is the original of that idea which we seek for. This is numifiestly wrong, A single instance of one billiard-hall moving another, suffices to originate the "sentiment," without further repetition. Nor is there more truth in the assertion that the belief depends on a conviction of the future resembling the past;' this explanation assumes that the general idea procedes the particular idea. If we believe that sinallar effects will follow whenever the same causes are in operation -if we believe that fire will hurs, or that the sun will rise tomorfor the are simply believing in our experience, and nothing more. We cannot help believing in our experience; that is irresistible; but in this belief, the idea of either past or future does not enter, I do not believe that fire will burn because I believe that the future will resemble the past, but simply breatise my experience of fire is that it burns - that it has the power to burn. Take a simple illustration, trivial, if you will, but illustrative: - A child is presented with a bit of sugar; the sugar is white, of a certain shape, and is solid; his experience of the sogar is confined to these properties; he puts it in his mouth; it is sweet, pleasant; his experience is extended, the organ he now believes (knows) to be sweet and pleasunt, as well as white and solid." Thus for experience is not transcenfed. Some days later, another piece of eagur is given him. Is it now necessary for him to have any "inquitive equiction that the future will resemble the post "-any fundamental idea independent of experience-to make him believe that if he puts the sugar in his mouth it will tasce street? Not in the least, he believes it is sweet, because he knows it is sweet-because his experience of

It will perhaps some strongs that we should select sweetness as an example of consumon. We exceed it for its simplicity. No one will deay that the tasts of sweetness is as much an effect consed by the engar as pain is an effect caused by fire. But people are upt to overlook that consumen is the result of the properties of one body using upon the properties of mother. They would call exceed a quality in sugar: but the metion of a billiard-ball they are is consed by another ball.

390 WEIDE

sugar is that it is sweet. By no effort could be direct himself of the idea of its sweetness, because sweetness forms an integral part of his idea of the sugar. So we may say of the sun's rising, it is part and parcel of our idea of the sun. So of one billiard-ball putting a second in motion; our experience of billiard-balls is that they put each other in motion.

Custom has primarily nothing to do with the belief. If we had only one experience of fire-if we saw it only once applied to a combustible substance-we should believe that it would burn, because our idea of fire would be the idea of a thing which burns, Custom has however, secondarily, some influence in correcting the tendency to attribute proporties to things. Thus, a child sees a friend who gives him an apple. The next time the friend comes he is asked for an apple, because the idea of this friend is of a man who, amongst other properties; has that of giving apples. No apple is given, and this idea is destroyed. Similarly, when all our experience of things is confirmatory of our first experience, we may say that habit or custom induces us to attribute certain effects to certain causes. When our subsequent experience contradicts our first experience, we case to attribute those effects to those cames which we first experienced; this is only saying that our subsequent experience has destroyed or altered the idea we formed at first.

Remark how much confusion is spread over this subject by the inconsiderate introduction of the word belief. It is incorrect to say that a man believes that fire will burn him if he puts his flager in it; he knows it. He will believe that it has burned some one clar—he will believe in a propositions you make about tire, because belief is the assent to propositions: but to talk of his believing that sugar will be assent, when he knows it is sweet, when he cannot think of it otherwise than as weret; or that fire will burn when he knows it burns, is as improper as to say that he believes himself cold when he is cold.

Only from this improper use of the word belief could the theory of fundamental ideas, or of 'an intuitive conviction that the future will resemble the past,' have stood its ground for a moment. If the proposition' Fire will burn paper' were put to any one, he would unquestionably believe it, because he has no other knowledge of the fire under those discussionances. The proposition is as evident to him as that two and two make four. Although, therefore, he may be said to believe in the proposition, 'Fire will burn paper,' he cannot properly be said to not upon belief when he attempts to light paper: he acts upon his knowledge. Metaphysicians argue as if the belief in the immediate result of an action were a belief in some implied proposition about the course of nature. It is really a reliance upon experience; nothing more.

It is necessary to distinguish between belief in existence, and belief in propositions. It is inaccurate to say a man believes in his own existence, as if that were similar to his belief in a proposition. But though a man cannot believe in his own existence, simply becurse it is improvible for him to conceive himself as non-existent, he may believe that he will exist eternally, because that is a proposition, the converse of which is conceivable and minutainable.

The primordial act of all thinking whatever, is, as I have explained in the Introduction to this History, the making present to the mind of what is about from the sense; and this, which conneets all intellectual phenomena into one class, renders the securate. demarcation of them sametimes impossible, so insensibly does the one pass into the other. Thus when I say, 'I see it has mined,' because the wet streets make me infer that the wetness was caused by min, my assertion is grounded on a mental re-presentation of the absent occurrence, precisely analogous to that which takes place when I infer the secretary of the sugar before me, or perceive that the flower in Julia's bair is a rose, or believe that the paper she holds clear to the candle will infallibly ignite if paper and flame come in contact. In each case the inference, perception, or belief, is the re-presentation of facts formerly present in my experience of rain, sugar, roses, and candles. Whenever I forget any of the attendant facts, i.e. had to make them powent, I can only form an incomplete conception of the thing about which I reason, or lafer. Bail logic is imperfect respresentation. In proportion to the complexity of a proposition will be the liability to crear, because of the hability to suffer some of the attendant facts to drop out of sigle. Thus the proposition 'Fire will burn paper' is so simple, and according with thilly experience, that assent to it is instantaneons; but the proposition. Human life may extend over two cenhomes' is one implying so many facts which cannot be made present to the mind, became not lying within familiar experience, that instead of assent it produces denial, or at least doubt, which is auspension of belief, which again is the confessed imbility to make all the facts present to the mind. That 'two and two make four' is the immediate and presistible conclusion of every educated man; nesertheless, this very man would prove before assenting to the

402 HEME.

proposition 'Eight times three handred and ninety-six, make three thousand one hundred and sixty-right,' because he would have to make present to his usual the successive steps of the calculation, and this would demand an effort, great in proportion to his want of familiarity with calculations.

In spite of this identity of belief and perception, it is necessary for the prespicuity of discussion to discriminate the two, and I propose therefore to restrict the term belief to the assent to propositions, and demorcate it from those direct inferences which are under in the presence of objects and have reference to them. I would say, we believe in the proposition "Fire hums," but know the fact that the paper about to be thrust into flame will ignate. Such a diserimination of terms will be found useful in discussing causation. We shall thus see in what respect assent to a proposition, complex in its elements, differs from the 'practical belief' of mankind in particular face-we shall separate the belief of the philosopher in the proposition. Every effect must have a cause,' from the belief of the child that the fire, which yesterday burned paper, will burn it today. Both beliefs are grounded on and limited by experience; but the experience of the philosopher is distinguished from that of the child by its greater occumulation of analogous facts. The 'necessity' and 'universality' which, according to Kant and Dr. Whereft, distinguish the philosophical conception, and raise it above experience, will be considered hereafter. For the present it is enough if we have reduced belief in causation (or in power) to experience of a direct kind, and squarable from any other intollectual act, but allied to all other acts in being the mental representation of phenomena formerly present in experience. And this will help us, perhaps, to recourile the combutants who quared over the idea of "power" in causation.

Thus while it will be admitted by the one party that between two caruts, named respectively came and effect, no serve is percrited by us, over and above the mere fact of antecedence and sequence; and that therefore Hume is right in saying—we only perceive this antecedence, and do not perceive the rankal link; on the other hand it must be maintained, that between those two events there is a specific relation, a something which makes the one succeed the other, causing this particular effect rather than another; and this sabile link it is which in the nexus contended for; this relation is is which distinguishes a cannot not from one of arridental sequence. There must be a peculiar relation, so property, usualing between oxygen

and metals, otherwise metals never could be oxidized. The oxidition of iron is an effect like the ignition of paper; but it is an effect producible only through a specific relation or cause. To say that we cannot know this cause, cannot perceive this relation, and that antercelence and sequence are all that we can perceive, is only soying that we cannot penetrate beyond phenomena and their successions; but this is no more a ground for the denial of a causal nexus, than it is for the denial of an external world.

All things necessarily stand related to all other things I sometimes these relations are obtruded on our notice, because they pass from relations of coexistence, into relations of succession, and we name them ranses and efforts; at other times they remain in the background of unremarked coexistence, and our unsolicited attention preriocks them; we do not then name them cause and effect. The earborate of line, which I see before me as murble, surgests to me in its inaction, no conception of porces, or consumon, become my attention is not solicited by any successive relations; yet, if I had witnessed the action of the earlouic acid on the line, which originally coured the two substances to unite and form murble, the passage from one state to another would have suggested the idea of some power at work. It is clear that there must be relations existing between the carbonic acid and the lime, which coose the tres to remain united, as we see them in morble. We do not see these relations we do not therefore see the cause but we know the ranse must be in operation all the while, although, in consequence of no changes taking place, we are not solicited to observe the operation. Hence it is that only successive phenomena are named cancel; and bence is it that Home was right in saying that, sa devalere usulyes, invariableness of antecodence and sequence is all that experience tells us of causation; although he did not, I think, state his position clearly, nor discern its real basis.

This conception of causation, as the direct relation between any two phenomena, whether coexistent or successive, accords with the fact that what is called the effect is itself but the union of two causes—the oxygen and the metal co-operate to form an oxide; the group of facts which we designate as the antecedent, combines with the group of facts called the sequent; as when we say that 'Henry I, died of eating lamprays;' by which we mean, that in a certain condition of his organism the introduction of lamprays was the antecedent to a whole series of sequences terminating in death; although we are perfectly aware that the salmon was not the 'cause,' but only

491 HUME.

one integer in the sum of causes. The difficulty in fixing upon a true cause is this very complexity of relations: only when we can be said to know all the elements of a group, can we isolate one to estimate its influence.

I have endeavoured to recopeils the two contenting parties on this perplexing question, and for all further discussion must refer to John Mill's chapter in his System of Logic, where bowever there is a passage which seems to me quite contrary to the doctrine he upholds. I allude to his strictures on the dorma cessavie causa cessul el effectivo. A coso de sobil gives a man a brain-fever : will the fever go off as suce as he is moved out of the sunshine? A sword is run through his body; must the sword remain in his body in order that he may continue dead?" Surely this organient is tenable only by those who confound a cause with the whole group of conditions which precede, and the effect with the whole group of conditions which succeed; and is not tenable by those who hold that cause and effect are samply antecedent and sequent. The solar rays striking on the man's head produce a disturbance in the circulation, which in its turn becomes the antecodent to a congestion of the blood-ressels in the brain, which becomes a brain-fever; instead of one succession of cause and effect, we have here a series of such successions; and if we could analyze the various stages of the sunstroke, we should find that each effect did crase on the crasation of the cause; indeed, if an effect be nothing but the sequent of an antecedent-and not the product of some creative power in the cause-it must depend for its existence on the presence of the anteredent.

Hume's Theory of Causation set Kant speculating on the constituent elements of cognition; but before we follow out the development of Philosophy in that direction, it will be necessary to trace the further development of Locke's influence in other directions.

^{*} Vol. Lp. 412.

SIXTH EPOCH.

THE OBIGIN OF KNOWLEDGE REFERRED TO SENSA-TION BY THE CONFUSION OF THOUGHT WITH FEELING: THE SENSATIONAL SCHOOL.

CONDILLAC.

\$ L LIVE OF COMMISSION

ETIENNE DE CONDILLAC was born at Grenoble, in 1715.

His life was passed muisly in study, and was not varied by any of those incidents which give interest and romance to biography. He published his first work, Essui sur l'Origine des Consolusances Humaines, in 1716. Three years after, his Truité des Systèmes. His other works followed rapidly; and established for him such a reputation that he was appointed totor to the Prince of Parma, for whose instruction he wrote the Cones d'Etasles. In 1768 the capricious doors of the Académie Prançaise were opened to him; but once elected a member, he never after attended any of its sittings. He published his Lagues des Calcule. He died in 1789.

§ II. Corpherac's System.

We have seen how Idealism and scepticism grew out of the doctrines respecting the origin of knowledge. We have now to see the growth of the 'Sensational School.'

The success which Locks met with in France is well known. For a whole century the countrymen of Descartes extelled the English philosopher, little suspecting how that philosopher would have dischained their homage, could be have witnessed it. Condillac is the acknowledged representative of Locke in France. When his first work, entitled Essai zer l'Origine des Coassimuseurs Hamaines, appeared he had no notion of simplifying Locke by reducing all

Knowledge to Sensation. He was a modest Lockrist, and had down as the fundamental principle that "sensations and the operations of the mind are the materials of all our knowledge—materials which reflection sets in action by seeking their combinations and relations," (Chap. i. § 5.)

In 175 Conserved his cylchrated work, the Traile dry Seposticas. In it he quits Locke's principle for that of Gauculti and Hobbes. "The chief object of this work," he says, "is to show how all our knowledge and all any Jeculties are derived from the seams, or, to speak more accurately, from percentions." The inclusion of cour families," as well as our ideas, in this sensions one in however due entirely to Condillac. Hobbes never thought of such a sum. plification." The divergence from Lacke is obtion: instead of the tree sources of ideas, recognized in the Econy on Human Underabliating, it assumes one source only-Sensition; instead of mind. with certain elementary faculties, it assumes one elementary for culty-that of Seastidity-out of which all the foculties are evalved by the action of external objects on the seases. Nor was this a mere slip of Condillac's pen; the error is radical; it constitutes the popularity of his system. Speaking of various philosophers, and quoting, with praise, the maxim attributed to Aristotle, that 'Nothing is in the intellect which was not provisually in the senses," he adds, 'Immediately after Aristotle remes Locke; for the other philosophers who have written on this subject are not worthy of neurosu. This Englishman has certainly thrown great light on the subject, but he has left some obscunity, All the familties of the soul appeared to him to be imain qualities, and he never suspected they might be derived from sousection itself."

Certainly, Locke never suspected anything of the kind, and would leadly have repullisted it, had any one suggested such a simplification of the psychological problem. He might have asked Condillar, why is it that no Ape having the fire senses of Man has ever yet been educated as a Man's and if facilities are nothing but sensations, why are the faculties of the Ape so remarkably inferior, when the senses, some of them at least, are so remarkably superior to those of Man? We find, on the one hand, naimals having senses like those of man, but not having the faculties of man; we find, on the other hand, men deficient in certain senses—sight, hearing, tasto, or smell—who, so far from being deficient in mental faculties, are remarkable for their high unlocausants; a striking example of which is the case of Laura Bridgman born blind, deaf, and doub. Nay, among men laving all the senses in activity, we find the greatest disparities in mental faculty; and we do not find that the men whose senses are the most susceptible and active, are the men whose intellectual faculties are the most developed; which is strange, if the faculties are nothing but sensations. How does Condillar explain the familiar fact of Idiots being in full possession of their senses? When he makes his famous Statue grow into an Intelligence, by the gradual evolution of one sense after the other, it never occurs to him that he tacitly admits the presence of the very mind which is said to be evolved; since in the absence of that mind, the senses will not elevate the statue one inch above idiocy.

Had Condillac been survering the animal series, and endeavouring to trace the gradual development of Sensibility throughout that series, he might have maintained, with some philosophical ecgener. that the various faculties were the derivative products of sensation. But he had no such conception. He looked men the mind as a tabela rosa, a blank page on which sensations wrote certain characters; and instead of regarding the mind in the light of an organism, the food of which was furnished by the senses, he regarded it to a simple grammy, in which the grain, on entering, ' transformed itself' into bread oven, and baker. He thought the senses created the faculties and were the faculties. He might as well have said that exerrise greates the faculty of running. The child cannot run till be has exercised his limbs, but the exercise does not give him the limbs, it only calls them into action. Condillac is right in saving that we are not been with the mental faculties developed to point to be touched upon hereafter), but he is wrong in saying that these faculties are only sensations. And when he endeavoured to construct the mind and its faculties out of transforated genericus, he never ones susperied that the ficulty of transformation-that which transforms-could not be itself a sensation. It is very easy to musgine transformed sensations; but the sensations do not, we presame, transform themselves. What is it that transforms them? The mind? Not so. The mind is the aggregate of our mental states, faculties, etc., the mind is made up of 'transformed seasations,' and cannot therefore be the transforming power. We return to the charge, and demand, What is it which transforms? Condiline has no answer. All he can say is, what he says over and ever again, that our faculties are transformed sensations. Herehim:-

'Locke distinguishes two sources of ideas, senso and reflection, It would be more exact to recognize but one; first, because reflection is in its principle nothing but sensation itself; secontly, because it is less a source of ideas than a canal through which they flow from sense.

"This inexactitude, slight as it may seem, has thrown much obscurity over his system. He contents himself with recogning that the soil perceives, thinks, doubts, believes, reasons, wills, reflects; that we are convinced of the existence of these operations, because we find them in ourselves, and they contribute to the progress of our knowledge; but he did not perceive the measuity of discovering their origin and the principle of their generation,—he did not suspect that they might only be acquired habits; he seems to have regarded them as innear, and he says only that they may be perfected by exercise."

This is far enough from Locke, t who would have been amused to hear that 'judgment, reflection, the possions, in a word, all the faculties of the mind are nothing but actuation which transforms itself differently (qui to transforme differenment)."

As it is curious to see how sensation transforms itself into these faculties, we will translate Condillar's account. If a multitude of sensations operate at the same time with the same degree of vivacity, or nearly so, man is then only in minual that feels; experience suffices to convince us that then the multitude of impressions takes away all activity from the mind. But let only one sensation subsest, or without entirely dismissing the others, let us only diminish their force; the mind is at oner occupied more particularly with the sensation which preserves its vivacity, and that senselies becomes attention, without its being necessary for us to suppose anything size in the sainst. If a new sensation acquire greater vivacity than the force which the former had, the deeper the impression made on us, and the longer it is preserved. Experience proves this. Our copacity of sensation is therefore divided into the sensation we have

Estrait command de Troité des Semutions. (Korres de Contilles (1800).
 13.

The would be able to refer be been the valgar notion that Condition perfected Locke's principles; on as M. Courin absurdly mays that Locke's Emay was the rough sheets (chancle) of which the Trutte des Scienticas is the perfected posture;—such a notion can be entertained only by those who blindly accept traditionary judgments. The brief exposition we shall give of Condition is a sufficient transpr to all mach assertions.

had, and the sensation which we now have; we perceive them both at once, but we perceive them differently; the one seems as past, the other as persent. The name of sensetion designates the impression actually made upon our senses; and it takes that of accessry when it presents itself to us as a sensation which has formerly been felt. Memory therefore is only the transformed sensation. When there is double attention, there is comparison; for to be attentive to two ideas or to compare them, is the same thing. But we cannot compare them without perceiving some difference or some resemblance between them: to perceive such relations is to judge. The acts of comparing and judging ore therefore only attention; it is thus that sensation becomes successively attention, comparison, judgment.

The other faculties are explained in a similar way, but we need quote no more. That such a system should ever have attained the facour it did, is a striking example of the facility with which men may be mided by an artful use of words.

Condillar said that science is only a well-constructed language (some languer bien failts); so much did he rely upon precision in weeds. Nor is this inexplicable in a same who functed he had reduced the analysis of mind to its simplest elements by merely naming them differently. It is however as abound to call aleas searations, because the ideas were originated by sensations, as it would be to call reasoning observation, because reasoning is founded or observation. The only excess for the error is in the common, hat false, supposition that ideas are faint impressions. They are not inspressions at all. Constillar says that an idea is a remeanbered sensation, and this remembrance is only a lesser degree of vivacity in the sensation. We answer that the idea is nothing of the kind; so far from being the sensation in a lesser degree, it is not the acasation at all; it is altogether different from the seasotion. Although every man who has experienced toothache, can have a very distinct idea of it (in other words, he can think of, and talk of toothacke), we defy him to detect in his idea any repetition of the sensetion. Nor is this wonderful; sensation is the product of a distinct part of the nervous system, the senses; ideas are the product of another distinct part of the nervous system, the cerebrum: sensation is feeling, thought is thinking. To suppose feeling and thinking are the same (although both nor come under the term feeling, by giving the word some new general signification) is an absurdity reserved for the Sensational School, the last and not

the least diantrious of whom, M. Destatt de Tracy, consolidated it

into an uphorism: peaser c'est aratir.

The ombiguities of language have in this case been usuated by the inture of our sensations. Thus all our visual ideas, insumed as they assume shape, do area like faut sensations; the reason is that although it is a very different thing to feed at the sun and to that of it, yet in thinking, our idea corresponds in some measure with our sensation; the idea is of a round, yellow, luminous body, and is not improperly called an issage of the sun. If it is an image of the sun, we easily conclude that it is a faint copy of our sunsation. But in the case of other senses, there is no difficulty in detecting the error. When we say that we can excell the assume of language we verbally confound our power of thinking a thing, with our power of farling it. There is in truth a generic distinction between Thought and Sensation, which it is fatal to overlook; now could it have been overlooked but for the introduction and adoption of that much-aboved word 'idea,' instead of thought.

I do not believe we can recover any sensation at all, but only the ideal effect of the sensation. Mr. Bain, who of all psychologists. as it appears to me, has approached nearest to the truth, here remarks, that the 'exact true of feeling, the precise inward sensation the to a state of hunger, is almost irrecoverable and uninoginable in a state of comfortable repletion." I believe it to be utterly irrecoverable. 'But,' he adds, 'the mersy movements, the fretful tones, the language of complaint, are all easy to recall; they belong to the more intellectual part of the system; and by these we can recover some portion of the total fact, which is also just about as much as we can communicate to a second person. The digestive state for the time being rules the tone of sensation so effectually that we cannot by any effort restore the currents due to an entirely opposite state; we can only recover the more revivable accompanionents." The reason of this I take to be simply the impossibility of displacing a sensation (e.g. that of replotion) by an idea. The sensation of hunger was due to a peculiar stimulus of the nervous system; so long as that stimulus was present, the sensation was present; when another stimulus replaced it, another sensation succeeded, and in the presence of that stimulus no other sensation is recoverable. The 'revivable accompaniments' were not sensations, but the segucies of servations, ideal elements. When Mr. Bain contrasts the serve of

[&]quot; The Score and the Intellest, p. 337.

eight with the sense of honger, and says that we can recover a picture or vision of fancy almost as exactly as we saw it, though not so strongly," and thinks that this gives to the sense of sight its 'intellectual character,' he appears to me to overlook the generic distinction between Sensation and Thought, a distinction which Condillae and his school systematically set uside. "We can reprosess conselves," he adds, "of the exact scene as it lay to the eye; in feel the searation itself is the wort relainable part of the whole." I cannot but think that, if Mr. Bain will recomider this statement, he will admit that the sensation itself is precisely the part which is ast retainable, not recoverable; for although the image of the hadseagus beheld in memory in like the actual scene which we gazed 1000-or, in more assurate language, although we are similarly affected by the remembrance as by the original stimulus, -yet a psychologist of Mr. Bain's rank does not need to be told that the hadseape in perception is constituted by a variety of intellicenal inforeness, - all its relations of space, form, solidity, etc., being purely intellectual elements, and these soft are the elements present in the remembrance, the netual assautions not being prosent at all. What therefore is recoverable, is the purely intellectual part of the whole; what is irrecoverable, the sensational; precisely as in the ease of hunger; we can recall the effects of hunger, even when quietly digesting dinner, but we cannot recall the sensation of honger.

The point in dispute is so important, and it so intimately bound up with the whole dectrine of the Sensational School, forming indeed the battle-ground of all psychological dectrine, that we must consider it with more than a passing attention. The confusion of Sensation with Ideation, or Thought, is Condillar's systematic error; but it is an error from which few, if any writers, even of the spiritualist schools, have been free. Explicitly, or implicitle, these two phenomena have been regarded as two aspects of the same. thing. The rigorous demarcation of Sensation at one process, from Idention as another process,—each dependent on its reparate nertons centre,-will be found in no psychological treatise. Nevertheless Comparative Anatomy has succeeded in demonstrating the independence of the organs of Sesse, and the Brain-proper; although no one has yet succeeded in detecting the true relations which connect these independent centres, and make them act togsther. We know that the limin is as much an addition to the organs of Sense as these organs are additions to the nervous system of the simpler animals. Low down in the minual scale we can detect no trace at all of a nerrous system; ascending a few steps, we detect a simple ganglion with its prolongations; ascending higher, we detect a more complex arrangement of ganglia, and rudimentary organs of Sense; ascending still higher and higher, we detect more ounplex organs of Sense, and a rudimentary Brain; till at last we arrive at man, with his complex organs and his complex Brain. But of independent is the Brain, that even in the human species cases occur of 'anencephalous monsters,' that is to say, children born without any Brain whatever; and these children breathe, such, ery, and struggle, like other children.

Further, it is ascertained that the function of this Brain (or Carebram) is Thought—or, as Junes Mill, with a nice sense of utility, proposed to call it, Eduction. Granting this, we grant that the functions Semation and Ideation are as independent as the organs of which they are the functions; and although Ideation is organically connected with Semation. Neither the anatomical nor the psychological connections of the two have been occurately discriminated, but the broad fact of their independence suffices for my present argument; which is merely to establish the position that the organs of Sense are competent to Sensation, without the addition of a Brain; and that the Brain, although constantly set into action by the organs of Sense, is in itself a separate centre, and the scat of specific actions.*

It is customary to speak of the organs of Sense as if they were simple organs; we must not therefore innerate in this matter, although we find it needful to remain the reader that each special sense is really the function of a complex apparatus of organs. The apparatus of Sight, for example, may be separated into at least three parts:—1st, for the reception of impressions of light; 2nd, for the transmission of those impressions; 3rd, for the amantion. Of these the last need only here be specially considered, and may be called the Semationsof Centre, t. In this centre the external sti-

^{*} See this point illustrated in detail by Unger and Prochasks, in they treatmen translated for the Ray Society by Dr. Luycock.

[†] I would call it money gauglion, if that did not promptose the existence of a distinct gauglion, anatomically separable in the higher animals, as it is in those lower animals which have nothing but armove gauglio. At posset, however, prince does not warrant such a statement otherwise than as in appetitude. Besides, I include the splant closed anama the general Separational Centres. (Compute Prochaska, p. 430.)

mulas becomes a sensation; from this centre the sensation is generally (not always) propagated to the cerebrum, which in turn may propagate the influence to the centre of museular motion, or classification.

Every sense, whether it be one of the five special senses, or of the so-called 'organic senses' (such as those of the alimentary canal or of muscular netivity), has its own special centre, or searceion; but there seems to be no ground for assuming, with Unger and Prochasks, the existence of any one general associase, to which these all converge; and I shall speak therefore of the Sessational Centres as the sents of sensations derived from the stimuli which act on the organs of sease. Considered as Sensational Centres, they are perfectly independent of the Brain; they may and do act without implicating the Brain, for they will act when the Brain is absent: a hird deprived of its corebram manifests unequivocal symptoms of being sensitive to light, sound, etc. But in the normal state of the organism these centres are intimately connected with the Brain; and the stimoli which affect them directly, indirectly affect the Brain. Light, impluging on the return, determines a change in the outic Sensational Contro; this change is usually propagated to the corebrum; and as the first change was a semution, so is the second un idea; this idea may excite other ideas, or it may be so faint in its influence as to be almost immediately absorbed, and then we not said in he 'searcely comesons' of the sensation-meaning that we thought very little about it : an example of which is the little attention we pay to the clock striking when we are engaged in study, if the fact is indifferent to us; we hear it, but think not of it the next moment; if on the other hand the striking of the clock is not indiffirms to us, the various thoughts which it awakens make us onineather equipments of the semontion." In the heat of buttle, a swood gueses through a man's arm, and nevertheless the wound is followed. by no pain or 'cuascionenes;' the stimulus which under ordinary circumstances would have been propagated from a Sensational Centre, and thence radiating to the cerebrum, would have roused up m safeld them, namely, of consequences, what was necessary to be done, etc., is prevented from so ralinting, and is not carried beyond the Sensitional Centre.

Not only can we have a restricts without being reasons of them

— i.e. without thicking about them; we can also think with perfect
freedom when all the Sensational Centres (except those of organic
life) are unaffected by any atimalus, i.e. when we have no sensa-

tions. We do so when awake in hed during the stillness of night; the senses are in renose, the Brain is active.

Thus is the independence of Ideation and Sensation proved psychologically and anatomically; and with this proof we destroy the basis of Contillar's doctrine. But even on purely metaphysical grounds we may reject his theory of the origin of knowledge. It note on two positions; - the first is the reduction of all knowledge to sensation; the second is the dogma of our familties not being inmate. The first is the doctrine of Gassendi and Hobbes. It is thus stated by Diderot, one of Condillac's most celebrated papils -Every idea must necessarily, when brought to its state of ultiauste decomposition, resolve itself into a sessible representation or picture; and since everything is our understanding has been introduced there by the channel of rensation, whatever proceeds not of the understanding is either chinerical or must be able, in returning by the same road, to re-establish itself arcreding to its sensible archetype. Hence an important rule in philosophy, That every expression which enaunt find an external and a sensible object to which it can thus establish its affinity, is destinate of signification.

These who maintain senseous experience to be the basis of all knowledge, will of enume assent to the position that every one of our ideas can be decomposed into senseous elements; but ideas themselves are not sensotions, they are formed from sensetions, and are not sensitio pictures. The least experience is sufficient to convince us that we have many ideas which cannot be reduced to any sensible picture whatever; or, to prevent any of the ambiguity which belongs to the word 'idea,' let us rather say we have many thoughts which cannot be reduced to any sensible picture. We can think of a sound without any power of ferming a picture of sound; we can think of virtue or goodness, of patriotism or scoundrelism, without being able to form mental pictures of these ideas.

Now for the second point: Condillac, we believe, was the first to catch a glimpse of the important truth that our feculties are not innate—are not even commute; but he bungled in attempting to trace the genesis of these faculties. That men are not been with the powers of reasoning, remembering, imagining, is a proposition which will meet with very little credit at first. A little experience and reflection however show as that as the child certainly cannot reason, remember, or imagine, these being faculties subsequently

^{*} Owned by Dugald Scottart, Philosophical Energy, p. 106.

and slowly developed, we must conclude that the mental faculties are only parentielly in the new-born clotd. The buby can no more reason than he can tail. He haven to do built; and, before he can learn them, the powers of his mind no less than the muscles of his rocal organs must grow, be developed, and strengthened by exercise. Must is no more born with reason than an acorn is-born an oak. The grown man has reason, as every oak has branches and foliage. But the infant and the acorn, though they contain that within them which, noder fitting circumstances, will be developed into reason in the one, and foliage in the other, cannot be said to have us yet either reason to foliage.

This is an important discovery, and yet one which is apparently obvious, and obtended upon our experience by the daily observation of children. Condillac has the merit of having first seen it, but he saw it very imperfectly, and foiled altogether to make my good use of it. As an example: He who teld us that our faculties were not innate, but were 'acquired habits,' tells us, when he comes to the genesis of these faculties, that they spring into existence at once-are born full-grown-the acora suddenly Isage into an oak. Thus his famous statue has Memory, Judgment, Desire, etc., as eron as it has Sensations. This is enough to show that if Condillae discovered an important fact, by only stmalfed over it, and knew not its significance." Let us hope that, if Enghad is to produce my new system of Psychology, this most important point will not be overlooked; the growth and development of our faculties is as much a part of Psychology, as the growth and development of our organs is a part of Biology.t

Conditine has made but a poor figure in our pages; let us hasten to add, that alchough his fundamental positions are erronesus, his works display considerable merits both in manner and matter. Many valuable remarks, and some good analyses, stay be found in his writings; and the style is admirably clear. He departed so widely from Locke, that it seems strange he should ever have been considered as a disciple. But we have express testimony to the fact that he was Locke's disciple; and if we consider for a moment the great stress which Locks always placed upon the sensous origin.

^{*} The only person who to our knowledge, has made any use of this fact is Dr. Bencke, who has made it the burn of his whole philosophy. See his New-Psychologic, also the Letzback der Psychologic (Berlin, 1865).

[†] Since this was station Mr. Herbrit Spenier has expensived the development of the families in his very remarkable Principles of Psychology (1955).

of our knowledge,—that being the point he wished to bring prominently forward, because his precursors had neglected it,—we shall vessly conceive how Condillor might have been more impressed with that part of the system than with the other, which Locke had rather indicated than developed. Moreover it was Locke's object to prove the mind to be a faieds rose, in order to disprove immigideas. This once being granted, it was easy to fall into the error of Condillar's 'simplification.'

Condillae was clear, but much of his cleamess was owing to his shallowness; much of the simplicity was owing to meagreness. He tried to construct Psychology upon no firmer basis than that adopted by the metaphysicians whom he opposed. Analysis of mental operatious and merely verbal distinctions had been powerless in the hands of his precursors, nor were they powerful in his. In summy subordinate matters he improved on them; some of his analyses were bester; many of his verbal distinctions were usuful; but be had no true perchelogical Method, and could found no designible system. The idea of connecting Psychology with Biology had not vet been distinctly conceived. Although the brain was universally held to be the 'organ' of the mind, the mind was, by the strangest of oversights, not regarded as the function of that organ;" comesquently no one thought of connecting the study of the mind with the study of the nervous system; no one thought of a physiological hasis as indispensable to psychological science. We shall see hereafter what attempts have been made in this direction. The first step may be said to have been taken by Hartley.

^{*} I may here entern brief coront against the positioned that I field the 'mind to be the function of the brain.' This is no place to argue so wide a question; and I content agreeff with asping that in the crade form is which that opinion is disquestly presented I do not agree. Election I half to be one function of the brain; but Mind is smoothing more general than the agreed function of Election; and the brain has other functions besides Election, other functions than any smalls called mental.

HARTLEY.

S L. LIFE OF HAUTERY.

DAVID HARTLEY, the son of a Yorkshire clergyman, was been on the 30th of August, 1705. He went to Cambridge at filters, and because a Pellow of Jesus College. Originally destined for the Church, he had scraples about signing the Thirty-sine Articles, and gave up the Church for Medicine, which he subsequently practiced with great success.

When only twenty-fee years of age he convived the design and committeed the execution of his celebrated Observations on Mos. his France, his Daty, and his Expectalisms, led thereto, as he tells un in the Preface, by hearing that (the Rev. Mr. Gay had asserted the possibility of deducing all our intellectual pleasures and pains from association.' Mr. Gay published his rivus in a dissertation presfixed to Law's translation of King On the Origin of Erif: Int. although Hartley acknowledges having derived the enggestion from Gay, it is clear to all readers of his work that he had thoroughly mastered, and made his own, the principle of Association as the promery law of intellectual combination. Hartley slid not publish his Glasseations till 1748, eighteen years after the scheme was first laid. The year before, according to Dr. Parr, he published a small treatist as a precursor to this work. 'You will be estomshed to bear," Dr. Parr writes to Dogald Stewart," that in this book, instead of the Doctrine of Necessity, Hartley openly declares for the indifference of the will, as maintained by Archlishop King," And the reader will be astonished to hear that Hurtley does no such thing! Dagald Stewart, who had not seen the work referred to, remarks that "it is curious that, in the course of a year, Harriey's opinious on so very essential a point should have undergone a complete change;" still more eurous, however, that Dr. Pary should have read the work and discovered in it such a mane's-nest. The tract in question is reprinted in the volume of Metaphysical Tracta

[#] Street, a Barriotta, part to p. 355 of Barriott referen

by English Philosophers of the Eighteenth Century. Prepared for the Preux by the late Rev. Susurel Purr, D.D. Levelou, 1937,—a reduce precious to metaphysical students, because it contains Cullier's Chris Universalis and Specioses of True Philosophy. If the tradit will turn to the third of these tracts, Conjecture question de Scare, Matu, et Idearum Generatione, without date, he will find that it is nothing more nor less than an abstract, in Latin, of the first part of Hardey's Observations; and that the question of Precovill is nowhere opened in it.—I can only suppose that Dr. Parr, unacquainted with physiological speculations, was maded by the admirable discussion of automatic and columnary actions (pp. 31–33), into the retion that Hardey there exponed the doctrine of free-will; but I am surprised that Sir W. Hamilton should have allowed the error to pass uncorrected in his edition of Stewart's Discertation.

Hartley died on the 23th of August, 1757, aged fifty-two, and left a come so distinguished for picty and go-doese that it in a great measure shielded his doctrines from the reprobation they have often incurred when promulgated by others.

§ II. HARRIEY'S STORIE.

Combining a suggestion thrown out by Newton at the end of his Principle, and in the questions unresed to his Optics, respecting vibrations of an other as the cause of sensation, with the doctrant of Locke respecting Association of Ideas, Hartley produced a system of Psychology, which is historically curious as the first attempt to explain psychological phenomena on physiological principles. If not worth much as a contribution to Philosophy, it is very noticeable as an effort to connect intellectual with physical phenomena; and, however subsequent writers may have ridicaled, not without excuse, the sibrations and vibrationeles which Hartley substituted to the old metaphysical conceptions, it is certain that his attempt to explain the phenomena physiologically has very much influenced the thoughts of succeeding speculators.

'Man,' he says, 'consists of two parts, body and mind.' Hors he mean by this to proclaim the existence of a distinct immaterial entity superadded to the body? According to the terms of his definition, on the first page of his work this seems to be his intention; for he defines it as 'that substance, agent, principle, etc., to which we refer the sensations, ideas, pleasures, pains, and voluntary motions.' Yet the whole system of vibrations seems to imply

the costrary, and, at the close of the first part of his work, he declares that he holds himself aloof from the question altogether. He will not deay the immateriality of mind: "On the contrary, I see. clearly, and acknowledge readily, that matter and motion however soltly disided, yield nothing more than matter and motion still. But then reither would I affem that this consideration affeeds a perof. of the soul's immateriality." He thinks, with Locke, that it is quite possible the Creator should have endowed matter with sensation; but he will not undertake to offirm it as a truth. 'It is sufficient for me that there is a certain connection of one kind or other between the sensations of the soul, and the motions excited in the mobility substance of the brain.4 A more rigorous logic would have forced him into a more decided opinion; for this question of the soul's immateriality as one vitally affecting the system of ribrations; and his adversaries have had little difficulty in showing the insufficiency of "sibrations" to explain the phenomena of an unmaterial mind. Between the immaterial principle and these material vibrations, there is an impossable gulf: let the ether valente never so rhythmically, it always remains "vibrating other," it cannot became "sensation," 'thought;' nor does Hartley bridge over the gulf by the assumption of an 'infinitesimal elementary body intermediate between the soul and the gross body, to which, and from which, the vibrations of the nerres are communicated; the radical difficulty remains the same.

It may be objected, perhaps, that those who point out the defect in Hartley's hypothesis are themselves open to a similar charge, since they assume an immaterial principle to be affected by a material change, and assume the mind to be in connection with the body, following its alterations. But there is this difference between them and Hartley: they do not pretend to explain how mind is affected by body, he does. They accept, as an ultimate fact, what he attempts to cluridate; and it is his cluridation which they refuse to acknowledge.

And we must agree with them in rejecting the hypothesis which Hartley proposes; for it is not only incompetent to explain the phenomena, but it is also one of those impossities inempable of really serving the purpose of a good hypothesis, because in itself wholly inempable of Verification.

His first proposition is that . The white nedullary substance of the

Compare also Scholinsa to Prop. 5 (vol. 1, p. 23), and Conjecturar quantum de Senso, etc., p. 41

lerin, spinal marrow, and the nerves proceeding from them, is the immediate instrument of sensation and motion. Modern physiologists maintain precisely the reverse of this, declaring the grey matter to be the specific and of sensation and intelligence. I may say, in passing, that both these positions seem to me emoneous in their exclusivences; and that the white us well as the grey substance must be present, just as the rine and copper plates must both be present in the galvanic bestery.

Hartley continues: 'External objects impressed upon the smess occasion, first in the nerves on which they are impressed, and then in the brain, Vibrations of the small—or, as one may say, infinitesimal—moduliney particles. These Vibrations are motions backwards and freezards, of the same kind as the oscillation of pendalones, and the troublings of the particles of sounding bodies. They must be conceived to be exceedingly short and small, so so not to have the least efficiely to disturb or mose the whole bodies of the nerves or brain. For that the nerves themselves should vibrate like musical strings is highly abourd.'

It appears from a passage in the Contraplation de la Nature af the Genevese inturalist, Charles Bonnet, who published, almost contemporarcously with Hartley, a dectrine almost indistinguishable from Hartley's, that certain physiologists had already entertained the idea of semation being the result of a nervous reciliation. 'He confeient faire osciller les nerfs pour rendre raison des sensations; et les nerfs ac peavent pas osciller. Ils sont mous, et nullement (lastiques.'s Net the nerves, but the clustic ether which penetrates the nerves, is the sent of these oscillations, seconding to Hartley and Bonnet.

The greatest defect of this hypothesis is that it explains nothing, while seeming to explain everything. Sensation remains as mysterious as before. If we call sensations by the new name of ributious, we have done nothing but change the name; and if we say sensations are vibrations, or are produced by them, then the ours of proof rests on our shoulders.

While acknowledging the defect of Hardey's system, let us not forget its excellence. If the doctrine of Association was not first applied by him, it was by him first made a physiologico-psychological basis. He not only applied it to the explanation of mental planomena; he applied it, and with great ingenuity, to those phy-

[&]quot; Pattle vis choic

siological phenomena which still interest and peoplex philosophers, namely the voluntary and involuntary actions. His twenty-first proposition, and the elucidations which follow, deserve to be read, enen in the present day, and the following passage from the abstract published in Parr's Tearts, is, in its pregnant brevity, worth quoting hore. Discentes primare instrumenta musica, primo movent digitios actione voluntarià, connectentes interea Ideas, imperiagne Annue, hos motus lenté excitantia, cum aspectu characterum musicorum. Continuato hoe processu, accedunt indies, propiers propensque ad se invierm, motas digitorum, et impressiones characterum, et tandene, Ideis et imperiis Amme in infastum quesi diminutis, confescuat. Folizen igitur peritus chockes digitis percurrit citisaline, et ordine justo, ex mero aspecto characterum musicorum, animo interim alienis cognitationilus intento : atque proinde characteres musici idem illi presenut officion, ac Sensationes impresse recess natis, in notifies escure automaticis. Migrant stague ope Associationis tam Motus velmutarii in automaticus, quan antenatici in voluntarios."

So little dependent is the psychological doctrine of Association on the physiological doctrine of Vibrations, that Priestley, in his Abridgment of Hardley, omits the latter hypothesis altogether. The principle of Association passed into the Scotch school; and Hardley this historically forms the transition to Real and his followers, who studiously moded anything like a physiological explation of mental phenomena. Before passing to Reid, however, it will be well to glance at Darwin.

* Considerer p. M.

CHAPTER III.

DARGUN.

A LTHOUGH even more neglected than Hartley by the present generation, Darwin, once or celebrated, deserves mention bear as one of the psychologists who aimed at establishing the physiological basis of montal phenomena.

Erasmus Darwin was born at Ellon, near Newark, on the 12th December, 1731. After studying at St. John's College, Cambudge, and taking his degree of Doctor of Medicine at Edinburgh, he established binuself as a physician in Lichlield, married twice, lad three sons, and field in the assentiath year of his age, 18th April, 1802. As a poet, his Botonic Garden (1781) by its tawdry splendour gained him a tawdry reputation; as a philosopher his Zosasonia; or, Lover of Organic Life, (2 cols. 4to, 1794–6,) gained him a reputation equally noisy and fleeting.

Although couched in different Impunge, Darwin's theory is substantially the same as Hartley's; instead of "vibrations" he substitutes 'semorial motions.' By the sensorium Darwin means 'not only the mediatary part of the brain, spiral morrow, nerves, organs of sense, and of the muscles; but also at the same time that living principle, or spirit of miniation, which resides throughout the body without being cognizable to-our senses, except by its effects." The changes which occasionally take place in the sensorium, as during the exertions of volition, or the sensorium of pleasure or pain, are termed sensorial motions."

The medullary substance, he thinks, passes along the serves and mingles with the muscular fibrus. The 'organs of sense consist in like manner of moving fibrus enveloped in the medullary substance.' The word isles has various meanings, he says, and to give it precision by defines it as 'a contraction or motion, or configuration of the fibrus which constitute the immediate organ of sense. Symnymous with the word isles we shall sometimes use the words senses of motion, in contradiction to anacular motion.'

[&]quot; Zommir, roll i p. bl.

He then undertakes to prove the existence of these sensual motions, and deduces from this proof the fact that as we advance in life all the parts of our budies become rigid, and are consequently less susceptible of new labits of motion, though they retain those already established. Hence only the young can learn; hence the aged forget the events of yesterday and remember those of infancy.*

"If our recollection, or imagination, be not a repetition of animal movements, I ask, in my turn, What is it? You tell me it consists of images or pictures of things. Where is this extensive causes hung up? or where the numerous receptures in which these are deposited? or to what else in the animal system have they any similature? That pleasing picture of objects, represented in miniature on the retina of the eye, seems to have given rise to this illusive oratory! It was forgot that this representation belongs rather to the love of light these to those of life; and may with equal elegance be seen in the camera obscura as in the uye; and that the picture ranishes for ever when the object is withdrawn."

Had Darwin left us only the passage just cited, we should have eredited him with a profounder insight into Psychology than any of his contemporaries, and the majority of his successors, exhibit; and although the perusal of Zoosowie must convince every one that Darwin's system is built up of absurd hypotheses, Darwin deserves a place in lineary for that one admirable conception of psychology as subcedimate to the laws of life. So little has this conception heen appreciated, that not only are systems of Psychology constructed in serene indifference to Physiology, but many of the questions agitated in mental Physiology are hopelessly entangled hecause men will not, or casnot, discriminate between problems of Physics and problems of Physiology; between phenomena regulated by laws of inorganic matter, and phenomena regulated by laws of organic matter. Thus the questions, Why with two eves do no see objects single! and, Why do we not see objects innerted, since their linages are inverted on the retina? have puzzled thousands; and not one of the attempted solutions has recognized the impartant fact that the problems are psychological, not optical nor anatomical, consequently cannot be settled by optics or anatomy; angles of incidence, and decussation of optic nerves, have nothing

^{*} Zoomoman, Vol. 1, p. 27,

⁺ Dail., p. 29. In Bain's Source and the Intellect, p. 80 sq. the render will find the old theory of a senserious, or chamber of magne, which Durwin here pushes units, estudiesterily refused from the physiological point of new.

514 DEEWIN.

to do with the phenomena the moment after the Sensational Centre has been affected. We might as well attempt to deduce the assimilation of sugar from the angles of its crystals, or from the sandlike disposition of its grains, as to deduce the perception of an object from the laws of optics: the crystals and grains of sugar most first be destroyed, and the sugar made soluble, before it can be assimilated; the retical images most, in like manner, first be transferred in the Sensational Centre before they can, through the sensational centre, affect the corchrons.

That this is no gratuitous hypothesis of mine, but expresses the actual process of perception, in as far as that process has been recentained, may perhaps be made clear from the following considerations. When I say that the perception of a visual object is a psychological act, not in any way explicable by the laws of outies, or by any investigation of the anatomical structure of the optic appearatus, I ground that assertion on certain authoritative facts; for example, I take up the vessed question of our perceiving an object as single, although two images are formed on the two retimes; and instead of endeavouring to explain it by delicate anatomy of the retina, or the decussating fibers of the optic serves, I at once remove it from that circle of discussion by classing it with phenomena precisely analogous. We see objects single with two eyes, true, but we also hear sounds as single with two cars, we small odours as single with two nostrils, we feel objects as single with five fingers. How is it that no physiologist has reflected on the bearing of these facts? If the ordinary explanations of optical perception are correct, who do not amintory and olfactory across decussate?-Why do not the waves of sound affect similar points of the tympanina-and so the whole mystery he cleared up? No scorer is attention called to the fact of single hearing and single swelling, with two auditory and two offactory nerves, than we at once cease to regard single vision with two optic nerves as mything special, and we try if a psychological explanation will not avail. I believe the explanation to be very simple. We cannot here two precisely ranilar renoctions at precisely the more southed the simultaneousness of the two sensetions readers them indiclinguisheble. Two sounds of precisely the same pitch and intensity, was cooling each other by an epperciable interval, will be heard as two sounds; but if they succeed each other so moilly that the interval is imppreciable, no distinction will be felt, and the two will be heard as one, because heard simultaneously. As I am forced to be

DARWIN. 515

very lirief here, the reader will not expect any development of this theory, but will pass with me to the consideration of other psychological aspects of preccution.

The fact of our being able to see an image reflected on the retina of an animal, and of our being able to explain on optical principles the formation of that image, has very much misled physiologists in their efforts to comprehend sensation; they have naturally imagined that in vision we see the retinal image; whereas, unless I am altopether mistaken, we see nothing of the kind—we are affected by that retinal image, as in hearing we are affected by a wave of nir, but do not perceive the wave; or as in smelling we are affected by the action of relatile substances on the olfactory nerve, but do not penceive the substances. We only perceive the changes effected in us by these agents.

The various Sensational Centres (see p. 502) are coviously affected by the arms stimuli: electricity giving to the gustatory nerve the stimulus of assurous bodies, to the anditory nerve the stimulus of someons vibrations, to the optic torre the stimulus of luminous bodies, to the tactile nerves the stimulus of tourh. Presoure on the eye ranses luminous spots to be seen; we seem to see fire-flies. The pressure of over-distended blood-vessels produces spectral illusions, and we see daggers in the six as visidly as any at our sides. Unlappy students well know the 'singing in the ears' produced by twen-study. Nor is this all: narcotics introduced into the blood enrite in each Sensational Centre the specific sensation normally excited by its external stimuli; giving the appearance of luminous spots to the eyes, of singing in the ears to the auditory nerves, and of 'erceping sensations' to the arress of touch.

The remon of this is that each Sensational Centre has its specific manner of being affected, no matter what the specific nature of the thing affecting it. While only certain things affect it sensationally, all those which do affect it, do so in a specific manner. Light, for instance, affects the optic centre, but produces no appreciable effect on the nulitory, gustatory, or tactile centres; nevertheless the optic centre may be affected by pressure, by narcotics, or by electricity, precisely in the same may as by light. The sibrations of a tuning-fork, which affect the unditory centre as sound, affect the tnetile centre as 'tickling,' not 'sound.'

From these indubitable facts it is not difficult to chicit a conclusion, namely, that sensation depends on the Sensational Centre and not on the external stimulus, that stimulus being only the cause of 516 BARWIN.

the sensational change. Whether the retina be directly affected by rays of light issning from an object, or the optic sentre he affected by the pressure of congested blood-casels, in each case we see, in each case the optic centre is affected in that specific manner is which alone it is capable of being affected. Consequently imaimuch as the visual sensation depends on the optic centre being affected, and does not depend on the formation of an image on the retina, we have no alternative but to admit that the retinal affection is transformed by the Semetisson! Centre, and there the impression first becomes a transition.

It may be added as confirmation of the foregoing doctrine respecting the centre as the sent of sensation, that Müller has cited examples of luminous spectra being excited by internal ourses after the complete destruction of the retina, and ' Luicke relates the case of a patient who after the extirpation of the eye for fungoid disease perceived all kinds of immurous appearances independently of external objects."

When therefore it is taked, Why do we see objects reed, when they throw iscorted images on the retina? the mover is, Because we do not see the retinal image at all; we see, or are affected by, the object, and our perception of the erectness of that object does not depend on vision, but on our conceptions of space and the relations of space—which are not given in the visual sensation, but are ideal conceptions; conceptions which are acquired in a complirated series of inferences, according to most philosophers; which are forms of thought, according to Kant, but which are by no school held to be immediate elements of sensation.

We thus return to the position that in every act of conscious ness the impression on the nerve becomes transformed into a sensiation only in the Sensitional Centre; and the old theories of 'eidola,' images,' impressions,' are seen to be unterable. Just as the crystals of sugar have to be decomposed, and the supar transformed into glucose, the glucose transformed into lactic acid, before sugar can be assimilable in the organism, so here the retinal images to be decomposed in the optic centre before a visual seastlies can be produced. Attempt a more direct process, and failure is intribable; cane-sugar injected into the usins is expelled in the usine as a feedge substance, not assimilable; and, in like manner, the most dexterous adjustment of rays of light falling insentiately on the optic gauglion, not transmitted thereto by the optic nerve, would produce an visual accounter.

^{*} Muller, Physiology, Eng. Trans. i. 1078.

HARWES: 517

Does not this demonstrate the purely subjective nature of all our knowledge, and the necessary admixture of the ideal element in all perception? It also demonstrates the futility of the theory adopted by Hartley and Darwin, which attempts to explain mental phenomena by 'tilirations' and 'motions.' Motion can only be motion, it cannot be the specific phenomenon we name sensation. To call sensations and ideas by the sugue name of motions, is to violate the conditions of philosophic language, and to mislead those who accept it into the belief that an explanation has been given in the charge of term. That Darwin was by it misled into absordity will be apparent in the following attempt to explain perception:—

No one will dray, he says, that the modula of the brain and nerves has a certain figure; which, as it is diffused through nearly the whole of the body, must have nearly the figure of that body. Now it follows that the spirit of animation, or living principle, as it occupies this medulla and no other part, has also the same figure as the medulla... which is nearly the figure of the body. When the idea of solidity is excited, a part of the extensive organ of touch is compressed by some external body, and this part of the senso-num so compressed exactly resembles in figure the figure of the body that compressed it. Hence when we acquire the idea of solidity we acquire at the same time the idea of figure; and this idea of figure, or motion of a part of the organ of touch, exactly resembles in its figure the figure of the body that occasions it; and thus exactly acquaints us with this property of the external world."

He is this brought back to the old conception of the mind being "impressed" by the exact forms of objects as wax is impressed by a seal. As he proceeds he gets more and more abourd. Thus he says, although "there may exist beings in the universe that have not the property of solidity; that is, which can possess any part of space at the same time that it is occupied by other bodies; yet there may be other beings that can assesse this property of solidity or disrabe theoreties of it occasionally, as me are taught of spirits and of angels; and it would seem that the spirit of samuelion must be endued with this property, otherwise Aon could it occasionally give mation to the limbs of universe? or be itself stimulated into motion by the obtrasions of surrounding bodies, as of light or odour?" He is led to this by the Spinoristic moon, that "no two things can influence or affect each other which have not some

518 DARWIN.

property common to both of them," which axiom destroys the possibility of spirit acting on body. Hartley, as we saw, tried to get over this difficulty by assuming the existence of a substance intermediate between body and spirit. Durwin field it easy to assume that the spirit has the power of patting on or potting off the properties of matter just as it pleases. 'Hence the spirit of animation at the time it communicates or receives motion from solid bodies must itself possess some property of solidity. And at the time it receives other kinds of motion from light, it must possess that property which light possesses to communicate that motion named Visibility. In like manner it possesses Superssity, Odarosity, Tangibility, and Antibility."

This is enough to show how little Darwin understood the real value of his luminous idea respecting Psychology based on the laws of life; enough also to make every one understand how philosophers rebelled against such a materialism as issued from the explanation of mental phenomena by 'sensory motions.' Before finally quitting the Zoossesia we must pause a moment over the explanation of our feeling for Beauty. He describes the sensations of the habe when "soon after it is born into this cold world it is applied to its mether's warm boson,' and the agreeable influences which thus grow up in the mind associated with the form of the boson which the infant embraces with its hands, presses with its lips, and watches with its eyes; and thus acquires more accurate ideas of the form than of the odour, and flavour, or warmth, which it perceives by its other senses. And hence in our maturer years, when any object of vision is presented to us, which, by its waving or spiral lines, bears may similitude to the form of the female boson,-whether it be found in a landscape with soft gradations of rising and descending surface, or in the form of some untique vases, or in the works of the pencil or chisel, --we feel a general glow of delight which seems to influence all our senses; and if the object be not too large, we experience an attraction to embrace it with our arms, and to salute it with our lips, as we did in our early infiney the bosom of our mother.'+

One of the happiest illustrations of ridicale being the test of truth, is the reply of Sheridan to this theory of Beauty. 'I suppose,' said he, 'that the child brought up by hand, would feel all these emotions at the sight of a wooden spoon!'

SEVENTH EPOCH.

SECOND CRISIS: IDEALISM, SCEPTICISM, AND SEN-SATIONALISM PRODUCING THE REACTION OF COM-MON SENSE.

CHAPTER I.

REID.

DUGALD STEWART opens his Account of the Life and Writings of Thomas Reid with remarking that the life was 'uncommonly barren of those incidents which furnish materials for biography; and as our space is sensity, we will content ourselves with a bare enumeration of such facts as may be useful for reference. Reid was born in 1710, at Struchan in Kincardineshire. rducited at Marischal College, Aberdeen. In 1752 he occupied the chair of Moral Philosophy in Aberdeen. In 1764 appeared his Inquiry into the Human Mind on the Principles of Common Sense. "In 1765" the Jayairy received a still more aubstantial testimony of approhation from the University of Glasgow," in the offer of the chair of Moral Philosophy, vacant by the resignation of Adam Smith. In 1780 Reid resigned his office, and passed the remaining years of his life in retirement and study. In 1785 appeared his Empy on the Intellectual Powers. He died in Glasgow in 1796, having anyised four of his children.

Reid's philosophy made a great stir at first, but has for some years past been sinking into merited neglect. The appeal to Common Sense us arbiter in Philosophy, is now perity well understood to be on a par with Dr. Johnson's kicking a stone as a refutation of Berkeley. Indeed Duguid Stewart himself was fully alive to the inconsequence of such an argument, and enfeavoured to shield his master by saying that the phrases 'Common Sense' and 'Instinct' were unhappily chasen. Unfortunately they were not more phrases

^{*} We follow Stream: that there must be some error here. If the Laguing was not published will 1764, Real could not in 1769 have been offered the chair at Glasgow as a "destinancy of approbation."

530 SEID.

with Roid; they were principles. It is impossible to read the Impuiry and not see that Reid took his stand upon Common Sense;* and Beattle and Oswald, his immediate disciples, are still more open to the charge.

It would carry us to great lengths if we were to examine all the questionable tenets contained in the Philosophy of Common Sense. We cannot however pass the supposed triumph over Locke, who said that personal identity consists in Consciousness; "that is," continues Reid, 'if you are conscious you did such a thing a twelvemouth ago, this consciousness of what is past can signify nothing else but the remembrance that I did it; so Locke's principle must be, that Identity consists in remembrance; and, consequently, a man must lose his personal identity with regard to everything he forgets." Here Locke is altogether misstaged. Consciousness does not resolve itself into any single act of memory, as Reid would here have us believe, nor can personal identity be limited to any one art. I have the consciousness of a certain mental state, therewith is connected the remembrance of some anterior state, which was also connected with an auterior state, and so on. The chain is made up of many links, and although some of these may be out of sight, not sue is broken. I am connected with my heybood by a regular series of transmitted acts of consciousness. I may have forgotten a thousand things, but I have not forgotten myself; if our act performed yesterday is forgotten today, all use not forgotten; and to remember one, however indistinctly, is sufficient to keep up the continuity of conscionness. Let those who finey the sentiment of personal identity does not consist in the consciousness of personal identity, show us in what it does consist.

We come now to Reid's great achievement, that upon which he declared his philosophical fame to rost: the refutation of Borkeley and Hume by the refutation of the Ideal theory. This he considered as his contribution to philosophy; this has been made the menument of his glory. It appears to us, after a long acquisitance with his writings, and a careful person of what his critics and admirers have advanced, that his sole merit in this respect is that of having called attention to some abuses of language, and to some examples of metaphors mistaken for facts. How much confusion

^{* &#}x27;I despise Philosophy, and renounce its guidance: let my exal fivel! with Common Sense.' (Logarty, ch. i. § 3.) Let it be abserved in passing that by Reid's disciples the Logarty is always regarded as his best work; the Everys were written in old-upe.

man, 521

the word 'idea' has always created need searcely be allosted to; and any attempt to destroy the acceptation of the word as tantamount to image, must be welcomed as salutary. So far let us be grateful to Reid. Locke's use of the word 'idea' as signifying 'a thought' instead of an 'image,' has misled thousands. But whatever almost may have crept in with the use of the word idea, it seems to us quite clear that Berkeley and Hume are not to be refuted by refuting the hypothesis of ideas, as Beid and his school suppose.

Let us, to avoid useless discussion, take it for granted that philosophers did adopt the theory of ideas which Reid combats; let us also grant that Reid has overturned that theory. What advance is made towards a solution of the problem? Not one step. The dilemma into which Hume threw Philosophy remains the same as ever. As I connot transcend the sphere of my Consciousness, I can never know things except as they are upon me—as they affect my Consciousness. In other words, a knowledge of an external world otherwise than as it appears to my Sense, which transforms and distorts it, is impossible.

This proposition may be said to form the ground of Sconticism. Now, we ask, how is that proposition affected by overtheowing the ideal theory? What does it signify whether the "affections of my consciousness' he regarded as 'images' or not? They do not remain less purely subjective whichever way we regard them. They are changes is see. The main position of Scepticism is precisely this subjectivity of knowledge. Because we cannot transcend conscionurss, we can never know things ger ar. Brid acknowledges that we cannot know things per se; but he says that we must behere in them, because in what we do know their existence is seq-This is exactly the opinion of Locke; may more, it is the doctrine of Hyme: for he says that we do believe in an external world, though we have no good reason for doing so. Sir J. Mackintosh relates that he once observed to Dr. Thomas Brown that he thought Reid and Hume differed more in words than opinious; Brown answered, 'Yes, Reid bawled out we must believe in an outward world; but added, in a whisper, we can give no reason for our belief. Hume cries out we can give no reason for such a noticual and whispers, I own we cannot get rid of it."

Reid ought to laws seen that his refutation of the ideal theory left Idealism and Scepticism untouched:" for either doctrine it mot-

^{*} In fact Malebrasche's Idealieus, which is very similar to Berkeley a informated on a theory of Perception atmost identical with Reid's.

522 mm

tors little Asse the knowledge be acquired, so that it be entirely subjective. The argument brought forward by Dugald Stewart—that the belief in the existence of an external world is one of the Fundamental Laws of Human Relief—is more philosophical; but when be says that Berkeley's Idealism was owing to the unhappy and imphilosophical attempt of Descartes to prove the existence of the world, he forgets that Idealism was known in the assent schools long before any one thought of proving the existence of matter. Moreover, although Stewart's formula is not open to the same objections as Reid's, yet it leaves the vital question untouched.

No one doubts that we believe in the existence of an external world. Idealism never questions the fact. The only doubt is, whether that belief he objectively as well as subjectively true. To say that the belief in objective existence is a Fundamental Law, is simply saying that we are so constituted that we are forced to attribute external reality to our scussitions. As well say we are so constituted that fire applied to our bodies will give us pain. We are so constituted. What then? Does this advance us our step? Not one. We have still to seek some proof of the term of ow constitution being the measure of the terms of other existences—still to seek how what is true of the subjective must necessarily be true of the objective.

Thus, granting to Stowart all be claims, we see that he does not attain to the heart of the question; and, strictly speaking, he does not touch Borkeley at all; he only touches Hume. For what answer can it be to Borkeley, to say that our Belief in matter is a Panlamental Law, not to be questioned? Berkeley would reply: 'Exactly; I said as much. I said that men believed their senses, and believed that what they saw was out of them. This is the law of human nature: God has so ordained it. But that which non do not believe, is the existence of an occult substance, an imaginary world lying underseath all appearances. You do not mean to assert that the belief in this substance is a Fundamental Law? If you do, you must be mad.' Stowart's answer is thus shown to be quite beside the mark.

Reid constantly declares that no reason can be given for our belief; it must be referred to an original instinctive principle of our constitution implanted in us for that express purpose. If this be so, we ask upon what pretence does Reid claim the merit of barring reduced Idealism and Scopticism by refuting the ideal hypothesis? If isotisef and not reason is to settle the question, then

623 REED.

has the ideal ApperAcets nothing to do with it; if the relatation of the ideal hypothesis sufficed, then has instinct nothing to do with it. 'To talk of Dr. Reid,' and the Quarterly, in its review of Streart's Second Dissertation, 'as if his writings had opposed a barrier to the prevalence of sceptical philosophy, is an evident mistake. Dr. Brid successfully refuted the principles by which Berkeley and Home cadesyowed to establish their conclusions; but the conclusions themselves he himself adopted as the very premises from which he reasons. The impossibility of proving the existence of a material world from " reason, or experience, or instruction, or liabit, or any other principle hitherto known to philosophers," is the argument and the only argument by which he endeavours to force upon us his theory of instinctive principles."

It appears, then, that immuch as Reid declares ississed to be the coly principle upon which we can found our belief in an exterand world, his argument against Berkeley is trobly vicious. First, because the solie/ was never questioned; secondly, because although we must are necessary to our instincts, such a necessary is no proof that our beliefs are true; thirdly, because if instinct, and not reason, is to be the arbiter, the attack on the ideal hypothesis is atterly beside the question.

This we see that, greating to Reid the glory he claims of having destroyed the ideal largethesis, he has only destroyed an outpost, fancying it to be the fortress. A few words on his own theory of

perception may not be out of place here.

He justly enough declared the ideal hypothesis to be gratuitous. We have no reason for supposing that the mind perceives images of things instead of the things themselves. But he overlooks, or rather denies, the fact that we perceive things mediately; he says we perceive them inseedistely. His explanations are contradictory and confused, but he repeats the assertion so often, that there can he no doubt he areant to say we perceive things immediately; the mind stands face to face with the thing, and perceives it immediately, without any medium of ideas, images, cidols, or the like. In this we believe him atterly in the wrong; his battle against 'ideas' carried him too for. It is our thing to say that we are affected by the things, and not by issayes of things; and another thing to my that we perceive things immediately. The former is correct; the latter is in direct contradiction with all we know of perception; and Reid constantly controllicts himself on the point.

When I attend, he says, 'as carefully as I can to what powers

594 REIN

in my mind, it appears evident that the very thing I saw yesheday, and the fragrance I smelled, are now the immediate objects of my mind when I remember it. . . . Upon the strictest attention memory appears to me to have the things that are past, and not present ideas, for its objects."

This is his position against the ideal hypothesis which assures that nothing is perceived but what is in the mond which perceives it; that we do not really preceive things which are external his only rertain images and pictures of them imprinted on the mind. The position is untenable. The very thing, the rose, of which he thinks, is not an isossessiste object at all it is elsewhere. The fragrance cannot even be recalled; that is to say, cannot be felt again, but only thought. All we can remember is the fact of basing been affected by the rose in a certain manner: that affection we call fragrance; we cannot recall the affection. Reid could hardle therefore have meant what his words literally express. Perhaps he meant, that when we think of the rose and the fragmace, the object of which we think is the rose, not an idea of the rose. But what a traises! He says, that 'in memory the things that are past, and not present ideas, are the objects of the mind." This is cittler a acedless traism or a falsium. Let us after the sentence thus- In memory the things thought of are not themselves present to the mind, but the thoughts only are present to it.' Reid would not dispute this-could not dispute it; yet it is only a more guarded statement of the ideal hypothesis; it substitutes "thoughts" for 'ideas.' He was misked by the ambiguity of the world object," which he uses as if meaning simply what the mind is thinking of; and of course the mind thinks of the thing, and not of the idea. But the ideal hypothesis takes object' to be that which is comdietely present to-face to face-with the mind, viz. no idea, or thought; and of course the mind thinks by its thoughts it may think about the thing, but it is through the medium of thought.

The difference is this —The Idealist says, that when things affect us, our sensations are what we perceive, and not the things producing those sensations. Brid says, we first our sensations, but therewith also we perceive the things. The Idealist further says, that when we think of things, the immediate object face to face with the mind is not a thing but an idea (thought). Reid says the object is the very thing: which is either an absurdity, or the does not differ from the ideal hypothesis.

We are quite really to admit that the pretended separation of

mem. 525

thoughts from thinking, and the making thoughts 'objects,' is vicions; and therefore Reid's language is perhaps less objectionable. But we must confess that we see no other advantage he gains over his adversaries. He does not pretend that our sensations are at all like their causes; may, he funcies that he destroys the ideal hypothesis by maisting on the want of rescablance between matter and our sensations. He says, over and over again, that the external world is in no respect like our sensations of it. 'Indeed, no man can conceive any sensation to resemble any known quality of bodies. Nor can may man show, by any good argument, that all our sensations might not have been as they are, though no body, nor quality of body, had ever existed.14 This granted, the question arises, How do you know anything of the external world? Reid massers, It is owing to an original instinct implanted in us for that purpose. Push the question further, drive him into a corner, and hid him tell you what that instinct enables you to know of matter, and he will answer, In sensation there is suggested to us a cause of that sensation in the quality of a body equable of protheing it. This is Locke's view.

The great point in Reid's theory is, that with our sensations are joined perceptions. 'The senses have a double province,' he says; 'they famish us with a variety of sensations, some pleasant. others painful, and others indifferent; at the same time they give as a conception, and an invincible belief of the existence of external objects. This conception and belief, which Nature produces by means of the senses, we call perception.'t This, upon which so much stress is laid that philosophers are said to have been always in error because they overlooked it, we regard as a municiable instance of Reid's want of subtlety. Neither Berkeley nor Hume denied the fact of our belief in the externality of the causes of seusotions: Berkeley denied that these causes had an occult substratum; Hume denied that any reason could be given for our belief in their externality. What force then has 'Perception'? It is nothing more than that 'belief,' according to Reid; though to call perception a belief is, to say the least, a somewhat inaccurate use of language. But grant all he wishes, and you grant that with our ampations there is an accompanying belief in the existence of an external cause of those sensations. Berkeley would nuserer, Very true, but that came is not sathinking matter. Hume would an-

[.] Jognies, ch. v. & 2. . | Emeye on Intellectual Process, in the stric-

526 mmb.

swer, 'Very true; but we can give no reason for our belief; we can know nothing of the cause." Beid can only retort, 'Ferception is belief;" a recort which has been dressed satisfactory by his school; which really is only an almse of language; and which moreover has the further disadvantage of being available only as an argument against Home; for against Berkeley it is powerless. If perception is belief, and we perceive an external world, Hume may he asswered when he says we have no grounds for our belief. But Berkeley is not answered. He says that we is believe in an enternal world; but that world is not a world of enthinking matterit is a world of divine agency. Held would not pretend that in sensation or perception we can distinguish the surror of the conserwhich affect us; he constantly tells us that we cannot know solar those causes are; but only that there are causes. As long as the assessed world is removed from our inspection, so long unset Berkeley remain unrefuted by any theory of perception. The error of his system, as we endeavoured to show, is in the gratuitouscess of his assumption with respect to the immediate agency of the Duity.

Reid says, that if we grant Beckeley's promiss-viz, 'we can have no conception of my material thing which is not like some sensation in our minds'-then are the conclusions of Idealism and Scepticism unanswerable. This premiss therefore he disputes. Now attend to his challenge:- This I would therefore Launbly propose, as an experisosmos crosss, by which the ideal system must stand or fall; and it brings the matter to a short home; Extension, figure, and motion may, any one or all of them, he taken for the subject of this experiment. Either they are ideas of sensation, or they are not. If any one of them can be shown to be an idea of sessation, or to have the least resemblance to any sensation, I lay my hard upon my mouth and give up all pretence to reconcile reason to common sense in this matter, and must suffer the ideal sceptions. to triumph." It was not till after repeated perusals that we caught the significance of this passage; and are not quite positive that we have understood it now. To admit it to have any force at all, we must understand 'ideas of sensation' as 'isseger of sensation.' Certainly, extension is no copy of any one sensation. But if Reil means to say that the idea of extension is not the result of conplex sensations which a body excites in us-if he means to say that

^{*} Topsing th V. 57.

REID. 427

the idea of extension is not an absence idea by which we capress a certain property of bodies, a property known to us only through sensation—then must we cease all dispute, and leave him in possession of his wonderful discovery.

Beid's theory of perception may be thus stated: —External objects occasion certain sensations in us; with these sensations we perceive the existence of certain qualities capable of producing them: these he distinguishes into primary and secondary. The primary, he says, we perceive insectiotely; the second, sectionly.

And this is the theory by which, with the aid of an 'original instruct' (some instincts then are nequired?), he is supposed to have refuted Idealism. Any one may see that Berkeley might readily have relinquished his ideal hypothesis, and accepted Beid's, with perfect security for Idealism. The 'unknown causes,' which Beid ralls 'qualities,' Berkeley calls 'divine laws.' The difference is merely nominal.

This much with respect to Idealism: With respect to Hume, the theory is almost as harmless. Hume would say, "All that is given in sensation is sensation; your "perception" (which you call belief) of qualities amounts to nothing more than a supposition—a necessary one, I admit; but I have always said that our belief in external causes of arosation was an irresistable prejudice; and my argument is, that we have nothing but the prejudice as a proof—reason, we have none."

Finally, with respect to Locke, it will in the first place by seen that Real's solution is neither more nor less than that given by Locke, in the second place, the boasted retoration of the ideal hypothesis is always supposed by Reid's school to be a refutation of Looko's view of the origin of knowledge; and this is a very great mistake. Because Berkeley and Hume pushed Locke's system to conclusions from which he wisely shrank, it has been generally supposed that his account of the origin of our knowledge is indiscohilly bound up with the ideal hypothesis, by it to stand or fall, This probably is the meaning of the sulgar error that Locke's view of knowledge leads to athrism. It led to Hume. In disproof of Reid's supposition we answer, firstly, Idealism is not indissolubly bound up with the ideal hypothesis, although Berkeley mar have alogical that hypothesis; secondly, Locke's system is altogether independent of the broothesis, and in his Review of the dectrines of Malebranche he very distinctly and emphatically denies it. The force of this observation will better be appropriated when it is re528 REID.

membered that although Locke's language is notoriously unguarded and wavering, all his reasonings are founded on the use of the want dident' as synonymous with 'notions' or 'thoughts.'

In conclusion, although we think it has been shown that the Common-Sense Philosophy ogregiously failed in answering Berkeley and House, it was not without service by directing the attention of mankind more exclusively to Psychology. The phrases so exceptaceutly used by Dugald Stewart to express the nature of his importers, namely 'inductive metaphysics' and 'experimental philosophy of the mind,' are perhaps objectionable; but few nill dray the value of his Elements, and of Brown's Lectures, works so popular as to need no further mention here. The classicals of the Mind, by the late James Mill, which may be regarded as the development of Harrley's doctrine, strapped of its physical hypothesis, is less known; but it is a work of great value, and would long ago have been as popular had it been written in a more engaging manner. No one interested in these inquiries should omit studying it."

The philosophy of the Scotch School was a protest against Scepticism. It failed; but another protest was made in Germany, and on philosophical principles. That also failed, but in another way; and the attempt was altogether more weetly of Philosophy. The reader formers that we allow to Kant.

^{*} Since the first edition of this work, Sie W. Hamilton has published in edition of Heid, illustrated and numbered by notes and discertations of incomparable studying and numbered. Respecting the interpretation for William gives to Head's doctrinos. I will only say that he has shown what a subtle mind can wood date the philosophy of common sense; but he has not in the least produced the conviction in me of Heid's having meant what the Blacteries successor supposed has to have meant. At the state time I will add that the limits of my week having restricted use to the consideration of Heid's contributions to Philosophy (in the nature sense of the term). I have not done justice to his many excellent qualities as a teacher. His works no well worthy of diligent study, and their spirit is enumently whentife.

EIGHTH EPOCH.

RESPECTING THE ORIGIN OF KNOWLEDGE.

CHAPTER I.

KANT

§ I. LIFE OF KANT.

IMMANUEL KANT was born at Königsberg, in Prussia, 22ad April, 1724. His family was originally Scotch, a circumstance which, when taken in conjunction with his philosophical connection with Hume, has some little interest. His father was a subfler, a man of tried integrity. His mother was somewhat severe, but upright, speaking the truth, and exacting it. Kant was early hard in a lase of truth, and had before him such examples of moral worth as must materially have contributed to form his own inflexible principles.

Madame de Staël has remarked, that there is scarcely another example, except in Greeian history, of a life so rigorously philosophical as that of Kaut. He lived to a great age, and accer more quitted the snows of marky Königsberg. There he passed a calm and lappy existence, meditating, professing, and writing. He had mestered all the sciences; he had studied languages, and cultivated literature. He lived and died a type of the German Professor: he tose, snoked, drank his coffee, wrote, lectured, took his hally walk always at precisely the same hour. The cuthedral clock, it was said, was not more penetual in its movements than Immunuel Kant.*

He was early sent to the University. There he began and there he ended his cureer. Mathematics and physics principally occupied his attention at first; and the success with which he pursued these studies soon tennifested itself in various publications. He pre-

³ He mentions having men been kept two or three days from his proseconds by reading Bossesso's Finite, which had just appeared.

530 KANT.

dicted the existence of the planet Uranus; and Herschel himself, after discovering it, admitted Kaut's having first amounted it.

But none of these publications attracted much attention till the renown of his Critique of Pure Reason had made everything produced by him a matter of interest. Nor did the Critique itself attract notice at first. The novelty of its views, the republicans of its terminology and style, for some time obscured its real value. This value was at length discovered and made known. All Genmany room with process of the new philosophy. Almost every 'chair' was filled by a Kantist. Numberless books and not a few pumphlets cause rapidly from the peros, either attacking or defending the principles of the Critical Philosophy. Kant had Ikened binaself to Copernicus. The disciples likened him both to Copernicus and Newton; for he had not only changed the whole science of Metaphysics, as Copernicus had changed the science of Astronomy, but had also consummated the science he originated.

The Critique was, he tells us, the product of twelve years' molitation. It was written in less than five months. These two thats sufficiently explain the defects of its composition. In his long meditations he had claborated his system, divided and subdivided it, and completed its heavy and uscless terminology. In the repolity of composition he had no time for the graces of style, nor for that all-important eleanness of structure which depending as it does upon the due gradation of the pure, and upon the elemnoss with which the parts thousalters are conceived) may be regarded as the great desideratum of a philosophical style.

But in spite of them defects—defects which would have been pardoned by no public but a German public—the Critique became relichented, and its author had to endure the penalty of celebrity. Be was pestered with numerous calls of curious atmagers, who would not leave Konigsberg without having seen him. Yo the curious were added the miniring. Enthusiastic schelars undertask long journeys to see their great master. Professor Berns our day walked into his study, saying brosquely that 'he had travelled a hundred and sixty miles to see and speak with Kant.' The mids became so numerous, that in the latter part of his life he contented himself with merely showing himself at the door of his study for a few minutes.

Kant never spoke of his own system, and from his house the subject was extirely bunished. He scarcely read any of the attacks on his works; he had enough of Philosophy in his study and lecture-room, and was glad to escape from it to the topics of theday.

He died on the 12th of Fabruary, 1804, in the eightieth year of his ago, retaining his powers almost to the last. He latterly, during his illness, talked much of his approaching end. 'I do not fear death,' he said, 'for I know how to die. I assure you that if I knew this night was to be my last, I would raise my hands, and my "God be praised!" The case would be far different if I had ever caused the misery of any of his creatures.'

For a picture of Kant's daily habits, and many interesting traits of his character, the reader will do well to look at De Quincey's 'Last Days of Immanuel Kant' in the third volume of his Miscellastic. I cannot find space for such details; nor for more than a possing mention of Kant's relation to Surahahorg, of which such unjustifiable use is often made by the admirers of the latter, who prochin, with emphasis, that Kant testified to the truth of Swedenborg's claireaguese. He did nothing of the kind. In his Letter as Swedenborg's claireaguese, and says he known not how to disprove them, they being supported by such respectable testimony; but he nowhere testifies to them himself; and in the clastbropologic, §§ 35 and 37.4 his energetic contempt for Swedenborgianson and all other Scharimerra is unequivocally expressed.

§ II. Kayr's Historical Position.

There is a notion, somewhat widely spread through England, that Kant was a 'dreamer.' He is regarded as a sort of Mystie; and the epithet 'treascendental' is made to express the superb contempt which common some feels for the vagaries of philosophers. The 'dreams of the Kuntian philosophy,' and 'treascendental nonsense,' are phrasis which, once popular, now less so, are still occasionally to be met with in quarters where one little expects to find them.

We are bound to say that, whatever the errors of Kautium, "dreaminess" or 'mysticism' are the last qualities to be predicated of it. If its terminology reader it somewhat obscure and repulsive, to somewhat he language comprehended, than all obscurity falls away, and a system of philosophy is revealed, which for rigour, elearness,

^{*} Kleine Anthropologicale Schriften (Thed vii. p. 5 of Rosenkursta and) Schubert's (d.).

⁺ Red, swette Alebert, p. 81 sq.

G32 KANT.

and, above all, intelligibility, surpasses, by many degrees, systems hitherto considered easy enough of comprehension.

Convinced that the system of Kant is plainly intelligible, and finding that neither Knut broself me the generality of his expositors have successful in overcoming the repulsiveness of medogisms and a combrons terminology,* our task must obtiously be to give an exposition of the system, as far as possible, in ordinary philosophical language; and, by exhibiting the historical position which is occupies, connect with it speculations already familiar to the reader.

From Spinson to Kant the great question had been this:— Here we, or have we not, any lifear which can be called accessarily, absolutely law? A question which resolved itself into this:—Have see, or have so not, any lifear independent of Experience?

The master given by the majority of thinkers was, that we had no ideas independent of Experience; and Hume had shown that Experience itself was atterly incompetent to assure as of any truth not simply relative.

Experience irrevisibly led to Scopticism. The dilemma therefore, which we signalized in the First Criss of modern Philosophy, again presented itself: Spinorism or Scepticism? The labours of so many thinkers had only brought the question round to its starting point. But Spinorism was alamning—Scepticism scarcely less so. Before submitting to be gored by either born of the dilemma, men looked about to see if there was no escape provide. A temporary refuge was found by the Scotch School in Common Sense, and by Kant in Criffeian.

[&]quot; Since this was written, we have read the work of Victor Consur. Leyout see Kast, vol. i. Peris, 1842. (Translated rate English by Mr. Headerson, London, 1894.) It is not only one of the best experitions we have some it is also the most intelligible. The chapter on Kaul in M. Burchen de Penlasu's useful work, Histoire de la Philia. Allemende depais Leibnitz jongs à Hoyd. 2 role. Paris, 1836, may also be read with advantage; though incomplete, it is intelligible. Also Merell's History of Speculation Philips, in the Ninet-atl scattery. Renders of German will do well to read Chalchina's Historicki Esterclobung der Spondations Philas. von Kant Lie Hoyd (Dreales, 1843). (It has been twice translated into English; by Mr. Tulk and by Mr. Edenbeinel Michelet's Geschichte der Istaten Systems des Philip in Deutschland our Kent bie Hegel (Berlin, 1833), is a learned and valuable work, but can be read only by the initiated. More generally useful than any of these is the Hist, de la Philin. Allemanie depuis Kant junga d Hogel, by J. Wilm. Para, 1854. Kant's Critique of Pare Risons his been translated by Mr. Morkley john (Rohn's Philosophical Library, 1825) with so ratich accuracy and ability that the translation may be read with entire confidence; which can rarely be end of translations from the German.

Kant called his system the Critical Philosophy. His object was to examine into the instarc of this Experience which led to Scepticism. While men were agreed that Experience was the source of all knowledge, Kant inked himself, What is this Experience?— What are its Elements?

The problem he set himself to solve was but a new aspect of the problem of Locke's Essay. On this deep and intricate question of human knowledge two opposite parties had been formed-the one declaring that all our knowledge was given in Experience, and that all the materials were derived from Sensation, and Reflection upon those materials; the other occuring that Sensation only famished a portion of our Experience. This second party maintained that there were Elements of knowledge which not only were never florient from Seasation, but which absolutely transpeaded all seneation. Such, for instance, is the idea of Substance. Experience only informs us of assolities : to these qualities we add a subdratum which we call Substance; and this idea of a substratum, which we are competled to add, Locke himself confesses we never gained through my sensation of matter. Other ideas, such as Consulity, Infinity, Eteraity, etc., are also independent of Experience: evgs, says this school, antecedent to it.

In the course of inquiry, the untenableness of the theory of immte ideas had become apparent. Describes himself, when closely pressed by his adversaries, gave it my. Still the fact of our possessing ideas apparently not derivable from experience, remained; and this fact was to be explained. To explain it, Leibnitz asserted that although all knowledge begins with Sensation, it is not all derived from Sensation; the mind furnishes its quota; and what it furnishes has the character of universality, necessity, consequently of truth, stamped on it. This decrine, slightly modified, is popularly known as the decrine of original instincts '—of ' Fundamental Laws of Belief.'

Kant also recognized the fact insisted on by the adversaries of the Sensational School; and this fact he set himself carefully to examine. His first object was therefore a Criticism of the operations of the mind.

Kant considered that his rescription of a purely critical philocophy was entirely original.* No one before him had thought of thus subjecting Beason itself to a thoroughly critical investigation,

^{*} And Sir W. Hamilton repeats the statement: Directories, p. 25.

531 KANT

in order to reach answers to such questions as: Are a priori synthetic judgments possible? Is a scirner of Metaphysics possible? Certainly no one had isolated the a priori elements of knowledge from those given in Experience, as Kant isolated them, to build a system thereon; but the whole tendency of speculative development since Hobbes, had been, as we have seen, towards the investigation of the grounds of cerritoide.

On interrogating his Consciousness, Kant found that neither of the two ordinary explanations would account for the phenomera; the abstract Ideas we have, such as Time, Space, Causality, etc., could not be resolved into Experience above a sor, on the other hand, although a poissi, could they be supposed absolutely isologondest of Experience, since they are, as it were, only the forms (accessory conditions) of our Experience.

There are not two sources of Knowledge, said her on the one side, external objects, and on the other, human understanding. Knowledge has but one source, and that is the major of object and subject. Thus, water is the union of oxygen and hydrogen; but you cannot say that water has two causes, oxygen and hydrogen; it has only one cause, namely, the union of the two.

In this conception the existence of two distinct factors is nosumed. 'That all our knowledge begins with Experience,' he says, there can be no doubt. For how is it possible that the faculty of cognition should be awakened into exercise otherwise than by means of objects which affect our senses, and partly of themselves produce representations (Forstellauges), partly rouse our powers of understanding into artivity, to compare, to connect, or to separate these, and so to consert the raw material of our seasuous impressions into a knowledge of objects which is called Experience? In respect of time, therefore, no knowledge of sum is antecested to Experience, but begins with it. But although all our knowledge begins with Experience, it by no means follows that all arises out of Experience. For, on the contrary, it is quite possible that our empirical knowledge (Erfahrungserkenstnier) is a compound of that which we receive through impressions, and that which the healty of cognition supplies from itself (sensuous impressions giting murely the occasion), an addition which we cannot distinguish from the original element given by sense, till long practice has made as attentive to and skilful in separating it. It is therefore a question which requires close investigation, and is not to be surveized at first eight-whether there exists a knowledge

altogether independent of Experience, and even of all sensores impressions."

To investigate this is the purpose of Criticism.

The whole world is to us a series of Phenomena. Are these Appearances the production of the Mind to which they appear, or are they the pure presentation of the things themselves? Idealism or Realism? Neither; get both. The Mind and the object co-specifical produce the Appearance or sensions impression. In their major Perception is effectivated.

The Mind has certain materials furnished it, and on these materials it imposes certain forms or conditions of its own. These forms alone make perception possible, since they constitute the modes of the mind's operation. If we had only sensations—that is, supposing objects arted upon us, and we did not also are apost thrus—the result would be no more than that of the wind playing on the Æoinn harp; Experience would be impossible. To make Experience possible, the small must group objects in a synthesis of the objects and the forms of the perceptive power.

Kust's Criticism was directed against Locke on the one hand, in establishing that we done ideas independent of Experience; and against Humo on the other, in establishing that these ideas have a claracter of universality, necessity, and irresistibility. But—and the point is important—his Criticism proved that these ideas, although universal and certain, could not be called adsolutely true: they were only subjectively true. This was falling back into Humar's position; since although Huma called belief in casuality the effect of habe, and Kant called it a law of the mind, yet both agreed in denying to it any objective truth; both agreed that a knowledge of things per se was impossible.

We regard the result of Kaut's investigation of the elements of Thought as nothing less than a scientific basis for Scopticism. He tikens his philosophical reform to the inform introduced into Astrosomy by Copernicus.† Finding the labours of non-unsatisfactory, Coperairus lathought him that perhaps success might crown his efforts if he shifted his ground, if, instead of assuming that the sunturned round the earth, he were to assume that the earth turned round the sun. So Kant says, that the ordinary assumption of our knowledge following the order of external objects, seemed to him better if reversed, and if we were to assume that the objects obeyed

^{*} Krifth Federing (Tombition p. 1)

I See the relaborated second Preface to the Evitil's.

536 KANT,

the laws of our mental constitution. And he calls his system critical, became it is founded on an examination of our esquitive ficulties. Both the name and the comparison appear to us error means. An examination of the cognitive faculties was, as we have often said, the great topic of philosophical speculation, and slehough the examination of Kant differed somewhat from every other in result, it in nowise differed in method. Copernicus positively changed the point of view. Kant did nothing of the kind; his attempt to deduce the laws of the phenomenal world from the laws of mind, was little more than the attempt of Descartes to deduce the world from Consciousness; it is the same is the attempts of Leibnitz and Berkeley in method; and the result is very much the result obtained by Hume, namely, that we can know nothing but our own ideas, we can never know things per re. Kant, after analying the operations of the mind, discovered indeed certain principles of certitude; but he admitted that those principles could not be applied to things beyond the Mind; and that all within the sphere of our cognition was no more than phenomenal. He reviews his investigation, and then, declaring that he has gone the round of the domain of human Understanding and measured it exactly, he is still forced to admit that that domain is only an island: Nature has assigned to it invariable limits. It is the empire of Truth; but it is surrounded by a stormy and illimitable sea, upon which we discover nothing but illusions. There, on that sea, the navignous, deceived by masses of ice which appear and disappear successively before lain, believing that at every moment he is about to discover land, wanders without repose, guided only by one lingu; he is the plaything of the stormy waves, always forming new plans, always preparing himself for new experiences, which be cannot renounce, and yet which he can never obtain."

To the Scoptic Kant says, 'No: experience is not a decrit; human Understanding has its fixed laws, and those laws are true.'

To the Dogmatist be says, 'But this Understanding can never know Things per se. It is occupied solely with its own Ideas. It perceives only the Appearances of Things. How would it be posible to know Normesus? By stripping them of the forms which our Sensibility and Understanding have impressed upon them (s.e. by making them cease to be Appearances). But to strip them of these forms, we must annihilate Consciousness—we must substitute

[&]quot; Arith h a rep. 10

for our Sensibility and Understanding, a faculty, or faculties, capable of perceiving Things per se. This, it is obvious, we cannot do. Our only means of communication with objects are precisely this Sensibility and this Understanding, which give to objects the forms under which we know them."

To the Doguntist, therefore, Kant's reply is verteally the same as Hume's. He proves that the Understanding, from the very nature of its constitution, cannot know Things per as. The question then arises, Have we may other Faculty capable of knowing Things per se! The answer is decisive, We have so such Faculty.

The difference between Hume and Kant, when deeply considered, is this —Hume said that the Understanding was treacherous, and, as such, it rendered Philosophy impossible. Kant said that the Understanding was not treacherous, but limited; it was to be trusted as for as it went, but it could not go for enough; it was so circumscribed that Philosophy was impossible.

This difference, slight as it may appear, led to important differences in the application of Kant's principles. The mendacity of Consciousness maintained by Hume Ird him to utter Scepticism in Philosophy and in Beligion, as subjects on which reason could not pronounce. The veracity of Consciousness (as far as it went) maintained by Kant, was a firm and certain basis, though a limited one, on which to build Beligion and Morals, as we shall see hereafter. Kant's crities do not in general appear to be aware of the consequences resulting from his exposition of the veracity of the Understanding. Yet us the buttle was confessedly between him and Humo, it might have been suspected that he would not have left the field entirely to his antagonist.

The reader is, we trust, now prepared to follow with interest the leading points of Kant's modysis of the mind. In giving an indication of the result of that analysis, before giving the analysis itself, we hope to have so far interested the reader that he will read the analysis with sharpened attention; sooing whither dry details are testing, he will not does them dry.

And first of the famous question: How are synthetic judgments, it priors, possible? This is the cut Kant has to crack with Hunte. But first let us understand Kant's language. He divides all our judgments into two classes, analytic and synthetic. The analytic judgment is, as it were, but a serious out of our superioner. When we say that a triangle is a figure with there sides, or that a body is extended, we are judging analytically; i. e. we are adding nothing

to our conception of body or triangle, we are only analyzing it. The synthetic judgment, on the contrary, is when we predicate some attribute of a thing, the conception of which does not involve that attribute another that a straight line is the abortest read between two points.

There are two classes of synthetic judgments; these à profesion and those à priori. The former result from experience; e. g. Gold is ductible. We must absolutely know that gold is ductible before we can predicate ductility of gold. But the à priori judgments are independent of experience; e. g. a straight line is the shartest read between two points; which experience may conferm, but which is accognized as true independent of experience; above all. it has a character of universality which experience could not bestow; for though experience may above is how a straight line is in many instances the shortest read between two points, it cannot prove that there is absolutely in shorter road in any case.

Hume declared that our experience of Cause and Effect was simply an experience of antecedence and sequence; and that our attributing a cause to any effect was a more matter of habit.

True, replied Kant, in the fact of instecedence and sequence, can sation is not given; but inasmuch as consation is irrenistibly believed in, the idea must have some source. If it is not given in the through observed, then must we seek it in the observer. In this fact of cansation what have we? We have first untecedence and sequence; we have next an attribute of consation predicated of them. The first is given in our experience; the second is not given in our experience, but is independent of it. This second is therefore an a priori synthetic judgment. It must either have an a priori basis in the understanding, or be rejected as a chimera. For it demands that something, A, should be of such a nature that something else, B, should follow from it necessarily, and according to an absolutely universal law. We may certainly collect from phenomena a law according to which this or that sawally happens, but the element of necessity is not to be found in it. Hence it is evident that to the synthesis of cause and effect belongs a dignity which is atterly marting in may empirical synthesis; for it is no more mechanical synthesis, by means of addition, but a dynamical one; that is to say, the effect is not to be cogitated as merely amened to the cause, but as posited by and through the cause, and resulting from it." This therefore

^{*} Kinnik, h. i. c. ii. § D (Transl., p. 76).

is an it priori judgment. By means of each judgments we are not only able to say that one thing is the cause of another, but also we are enabled to make this wide generalization: Every effect nexal face a cause. Here, as in the proposition of a straight line being the shortest road between two points, we have an idea not given in experience, and an idea, the universality of which, experience could never verify.

We are thus led to assert that the Mind does add something to sease-experience; and that what it adds is not only independent of experience, but has the further character of certifude and universality, which experience can never claim. The certainty of experiesee is always limited; it never em have the character of universality, however rich it may be, for after a thousand years it may be proved erroncous. Thus, it was universally believed that all crowswere black a wide experience had established it-vet white crows were found; and experience was forced to reknowledge it had been in error. So with the motion of the san, once universally believed, because founded upon experience. That which is to be held as irrosistibly true, which shall be universally and necessarily maintained by all men, cannot have its origin in Experience, but in the constitution of the Mind. Hence the truth of Mathematics; not, as is so often said, because it is an abstraction of Forms and Relations, but became it is founded on the necessary laws of our mental constitution.

In these synthetic judgments, à poiori, there is a ground of Cortitude. The veracity of human reason reposes on that Certitude. Although therefore, says Kant, we can never know whether our conceptions of things, per se, are solequate, we can know what conceptions all men must form of them; although we cannot know if our knowledge has any objective truth, we can be certain of its subjective truth.

A principle of Certitude having been found, nothing further was necessary for its confirmation than to ascertain in how far this principle could be the basis of a science. Knut showed that it formed the basis of all science. People do not dispute, said he, respecting Mathematics or Logie, or the higher branches of Physics; and if they do dispute, they end by agreeing. But in metaphysics, disputes are endless. Why is this? Simply because Logie, Mathematics, and the higher branches of Physics are Sciences of Generalities; they do not occupy themselves with unrighly and contingent, but with the invariable and universal pro-

perties. Logic is composed of rules which are reducible to certain self-evident propositions. These propositions, reduced to their principles, are nothing more than the laws of the human mind. These have are invariable because human nature is invariable. Mathematics is, in the same way, the study of certain invariable properties, which do not exist in nature, but which are conceptions of the mind, upon data furnished by nature, abstraction being made of all that is variable and uncertain in those data i.e. g. the cocentral properties of an equilateral triangle, abstraction being made of any body which is triangular, and only the properties themselves being considered.

In physics, since the time of Galileo, men have seen that they are judges, not the possive disciples, of nature. They propose as a priori problem; and, to solve this problem, they investigate nature, they make experiments, and these experiments are directed by reason. It is reason that they follow, even when operating on nature; at is the principle of that reason which they sock in nature, and it is only in becoming rational that physics become a science. Again we find science reposing on the laws of the mind?

Thus, the laws which form the basis of logic, mathematics, and physics, are nothing less than the laws of the human mind. It is, therefore, in the nature of the human mind that the certitude of all the sciences is to be found; and the principles of this certitude are universality and necessity.

Psychology thus becomes the groundwork of all Philosophy; to Kant's Psychology we now address ourselves.

§ III. Kayr's Percusatory.

It has been shown that experience does not furnish the whole of our knowledge;

That what it does famish has the character of contingency and variability;

That the mind also furnishes an element, which element is an inseparable condition of all knowledge; without it knowledge could not be;

That this element has the character of universality and necessity; And that the principle of all certitude is previsely this universality and necessity.

It mos remains for us to expresse the nature of the mind, and to trace the distinctive characters of each element of knowledge, the objective and the subjective. Instead of saying, with the Sensational Selssel, All our knowledge is derived from the senses; and the said, Holf of all our knowledge is derived from the senses; and the half which has another origin is indicatedly bound up with the forser helf. Thus, instead of saying with the Cartesium, that, besides the ideas acquired through the sense, we have also certain ideas which are innate, and irrespective of sense; Kant said all our ideas lime a double origin, and this twofold co-operation of object and valued is indiquenced to all knowledge.

Let us clearly understand Kunt's object. He calls his great work the Critique of the Pure Reason. It is an examination of the mind, with a ricu to detect its à priori principles. He calls these pure because they are à priori, because they are above and beyond experience. Having demonstrated that the mind has some pure principles—has some ideas which were never given in experience, and must therefore be à priori—he was led to inquire how many the mind possessed. In his Critique therefore we are only to look for the exposition of à priori principles. He does not trouble himself with investigating the nature of perception; he contents himself with the fact that we have sensations, and with the fact that we have ideas whose origin is not sensuous.

The Non-ego and the Ego, the objective world and the subjective mind, being placed face to face, the two co-operate to produce knowledge. We are however here only concerned with the subject. What do we discover in it? First, a Sensibility—a power of being affected by objects; this is what Kant calls the Recyclisity of the mind; it is entirely passive. By it the representations of objects (i.e. sensations) are received. Secondly, an understanding (Fermions)—a faculty of knowing objects by means of the representations furnished by our Sensibility; this is an active faculty; in antithesis to Sensibility, it is a Spontageoly.

But our Sensibility, although passive, has its hars or conditions; and, to discover these conditions, we must separate that which is discrete and multiple in our sensations from that which remains invariably the same. The objects are numerous and various; the subject remains invariable. Kant calls the multiple and diverse element by the name of material; the invariable element by the name of form. If therefore we would discover the primary conditions of our Sensibility, we must discover the invariable elements in all sensetions.

There are two invariable elements - Space and Time. They are

542 KAST.

the forms of our Sensibility. Space is the form of our Sensibility, as external; Time the form both as internal and external.

Analyze sensations of external things as you will, you can accerdisest them of the form of Space. You cannot conceive bedies without Space; but you can conceive Space without bodies. If all matter were annihilated, you must still conceive Space to exist. Space: therefore is the indispensable condition of sensation: the form of external Sensibility. It is not given in the materials of sensation, since you may conceive the objects annihilated, but cannot conceive the annihilation of Space. Not being given in the material, it must therefore constitute the form.

Similar reasoning proves that Time is also the form of our Sensibility, considered both as internal and as external. We cannot conceive things as existing, except as existing in Time; but we can conceive Time as existing, though all things were annihilated. Things subjected to our Sensibility are subjected to it in averaging that is the form of our Sensibility.

Such then are the two indispensable conditions of all sensation the two forms with which we invest all the varied senterials presented to us. It is evident that these two ideas of Space and Time cannot have been given in the materials, consequently are not deducible from experience; ergo, they are \(\tilde{a}\) priori, or, as Kant calls them, prec intuitions.

Having settled this point, he enters into his celebrated examination of the question, Horr Space and Time any objective crafty?

We need not reproduce his arguments, which however may be studied as fine dialectical exercises, but content ourselves with giving the result. That result is easily forescen: If Space and Time are the forms of our Sensibility, and are not given in experience, not given in the materials presented, we may at once moune that they have no asistence out of our Sensibility. Knat's reduction of Space and Time to formal elements of thought authors corresponding objective reality, has been refuted by Herbert Spacer," who has shown that the experience-hypothesis better explains the genesis of these conceptions. I must not venture to interrupt the expesition of Knut by any quotations, but will add my own continue that Space and Time are objective realities in the sense that solidity, colour, etc., are objective realities; in other words, although, as we touceive them, they are purely subjective, and do not exist externally

Principles of Psychology, pp. 52-58;

as the Space and Time which exist in us, nevertheless same external reality there is, corresponding to our subjective state; precisely as there must be some corresponding objects of solidity, colour, etc., otherwise the conceptions of solidity, colour, etc., would never have been formed.

Beturning now to the exposition, we must follow Knut's analysis of the forms of the Understanding. The forms of Sensibility being those of Space and Time, we must pass onwards to the higher operations of the mind. The function of the Understanding is to judge. It is eminently an active faculty; and by it the perceptions formished through our sensibility are elevated into conceptions (Beyriffe). If we had only Sensibility, we should have sensations, but no knowledge. It is to the Understanding that we are inarbited for knowledge. And how are we indebted to it? Thus:the variety of our sensations is reduced to unity-they are linked together and made to interpret each other by the understanding, A sensation in itself can be nothing but a sensation; many sens entions can be nothing but many sensations, they can never above constitute conceptions. But one sensation linked to another by some connecting faculty—the diversity of many sensations reduced to unity-the resemblances, existing anidst the diversity, detected and united together-is the process of forming a conception, and this is the process of the Understanding, by means of imagination, memory, and consciousness.

One senses, in contact with the external world, are affected by objects in a certain determinate manner. The result Kant calls a representation (Forestelloop) in reference to the object expresented; an intuition (Auschmang) in reference to the effection itself. These intuitions are moulded by the Understanding into conceptions; the sensation is converted into a thought.

The Understanding is related to Sensibility in the same way as Sensibility is related to external things. It imposes certain forms on the materials furnished it by Sensibility, in the same way as Sensibility imposed the forms of space and time upon objects presented to it. These forms of the Understanding are the laws of its operation.

To discour these forms we must ask ourselves, What is the function of the Understanding?—Judgment. How many classes of judgments are there? In other words, What are the invariable conditions of every possible judgment?—They are four: quantity, quality, relation, modulity. Under one of these bends, every judgment may be classed. 544 KANT,

A subdivision of each of these classes follows:—1. In judging of anything under the form of quantity, we judge of it as unity or as plurality; or, uniting these two, we judge of it as totality. 2. So of quality; it may be reality, negation, or limitation. 3. Belatist may be that of substance and accident, cause and effect, or action and reaction. 4. Medality may be that of possibility, existence, or accessity.

Such are Kunt's famous Categories. They are little better than those of Aristotle, which we before declared to be notice. For although the object of Kunt was different from that of Aristotle, as Sir W. Hamilton points out;" the result was nothing but a combrons machinery incompetent to mid our investigations, although very seductive to the lovers of verbal distinctions.

In those Categories Knut finds the pure forms of the Understanding. They render thought possible; they are the invariable conditions of all conception; they are the investitures bestowed by the understanding on the materials formished by muon.

By the Categories, he declares he has answered the second half of the question, How are synthetic judgments, à priori, possible? The synthetic judgments of the Categories are all à priori. But we have not yet exhausted the faculties of the mind. Sensibility has given us intuitious (perceptions). Understanding has given us conceptions, but there is still another faculty—the crowning faculty of Reason (Fermany), the pure forms of which we have to seek.

Understanding is defined, the faculty of judging (Fermiges der Lietheile); Reason is the faculty of entiocination—of drawing conclusions from given permises (Fermiges der Schlüne). Bruson reduces the variety of conceptions to their utmost unity. It proceeds from generality to generality till it reaches the mechanizional. Every reacception must be reduced to some general idea, that idea again reduced to some still more general idea, and so on till we arrive at an ultimate and unconditional principle, such as God.

Beason not only reduces particulars to a general, it also deduces the particular from the general: thus, when I say, 'Peter is mortal,' I deduce this particular proposition from the general proposition, 'All men are mortal,' and this deduction is evidently independent of experience, since Peter being now alive, I can have no experience to the contrary. These two processes of reducing a particular to some general, and of deducing some particular from a general, constitute rationization.

^{*} Discussion p. 25.

Beason has three pure forms; or, as Kant calls them, borrowing the term from Plate, ideas. These are wholly independent of experience; they are above Sensibility—above the Understanding; their domain is Beason, their function that of going unity and colements to our conceptions.

The Understanding can form certain general conceptions, such as nam, animal, tree; but these general conceptions themselves are subordinate to a still more general idea, embracing all these general conceptions in the same way as the conception of man embraces several particulars of bone, blood, muscle, etc. The idea is that of the naiverse.

In the same way all the modifications of the thinking being—all the sensations, thoughts, and passions—require to be embraced in some general idea, as the ultimate ground and possibility for these modifications, as the nonmenou of those phenomena. This idea is that of an ego—of a personality—of a soul, in short.

Having thus reduced all the varieties of the spe to an unconditional unity, viz. soul, and having also reduced all the varieties of the accorge to an unconditional unity, viz. the world, his task would seem completed; yet, on looking deeper, he finds that these two ideas presuppose a third—a unity still higher, the source of both the world and of the eyo—viz. God.

God, the soul, and the world are therefore the three ideas of reason, the laws of its operation, the pure forces of its existence. They are to it what Space and Time are to Sensibility, and what the extegories are to Understanding.

But these ideas are simply regulative: they operate as conceptions as the Understanding operates upon sensations; they are discursive, not intuitive; they are never face to face with their objects: hence Benom is powerless when employed on matters beyond the sphere of Understanding; it can draw nothing but false, deceptive conclusions. If it attempts to operate beyond its sphere—if it attempts to solve the question raised respecting God and the world—it falls into endless contradictions.

'While we regard as conclusive Kant's analysis of Time and Space into conditions of thought,' says Sir W. Hamilton, 'we cannot help viewing his deduction of the Categories of the Understanding and the Ideas of speculative Beason as the work of a great but perverse ingenuity;' and we, who do not even regard the analysis of Space and Time is conclusive, may echo this judgment with greater emphasis. 546 KANP.

§ IV. Consequences on Karr's Peremoneur.

We have given briefly the leading points in Kant's analysis of the mind. We have now to trace the consequences of that analysis,

The great question at issue was: Here we, or have we sot, any ideas which are absolutely, objectively tens? Before this could be answered, it was necessary to answer this other question:—Here we, or have we sot, any ideas independent of experience? Because if we have not such ideas, we can never pretend to solve the first question; our experience can only be of that which is relative, contingent, subjective; and to solve the question, we must be in possession of absolute, necessary, objective truth.

Kant answered the second question affirmatively. His Critique was a laborious demonstration of the existence of ideas not derived from experience, and in no way resolvable into experience. But he answered the first question negatively. He declared that our ideas are essentially subjective, and cannot therefore have objective truth. He did not deny the existence of an external world; on the contrary, he affirmed it, but he denied that we can know it; he officured that it was essentially unknowable.

The world exists,—that is to say, the nonmona of the various phenomena which we perceive, exist. The world is not known to us as it is per se, but as it is to so—as it is in our knowledge of it. It appears to us; only the appearance therefore can be known; the world must ever remain unknown, because, before being known, it must appear to us, i. e. come under the conditions of our Sepsibility, and be invested with the forms of Space and Time, and come under the renditions of our Understanding, and be invested with the entegonical forms.

Suppose object and subject face to face. Before the subject ran be affected by the object—that is to say, before a sensation is possible—the object must be modified in the sensation by the forms of our Sensibility: here is one alteration. Then before sensation can become thought, it must be subjected to the entegories of the Understanding: here is another alteration.*

Now, to know the object per se—i, e. divested of the medifications at undergoes in the subject—is obviously impossible; for it is the subject itself which knows, and the subject knows only under the conditions which produce these modifications.

Compare what was said on the transformation of impressions ago sensetions, pp. 514 sy.

Knowledge, in its very constitution, implies a purely subjective, styp relative character. To attempt to transcend the sphere of the subjective is vain and hopeless; nor is it wise to deplore that we are 'cabin'd, cribb'd, confined' within that sphere from which we neser can escape. As well might the bird, when feeling the resistance of the sir, wish that it were as coreso, thinking that there it might fly with perfect case. Let us therefore content ourselves with our own kingdom, instead of crossing peritous sens in search of kingdoms inaccessible to man. Let us learn our weakness.*

Frank Restre.—A knowledge of things per se (Diage as sich) is impossible, so long as knowledge remains composed as at present; consequently Outology, as a science, is impossible.

But, it may be asked, if we never knew nonnerm (Dinge on sich), how do we know that they exist? Their existence is a necessary postulate. Although we can only know the appearances of things, we are forced to conclude that the things exist. Thus, in the case of a minhou, we discover that it is only the appearance of certain drops of water: these drops of water again, although owing their shape, colour, etc., to us, nevertheless exist. They do not exist ar drops of water, because drops of water are but pleasomena; but there is an unknown semething which, when affecting our Sensi-bility, appears to us as drops of water. Of this unknown something we can affirm nething, except that it necessarily exists because it affects us. We are conscious of being affected. We are conscious also that that which affects us must be something different from ourselves. This the law of canonical reveals to us.

A phenomenon, inastruch as it is an appearance, presupposes a neumenon—a thing selich appears,—but this nonmenon, which is a necessary postulate, is only a negation to us. It can sever be positively known; it can only be known under the conditions of sense and understanding, evgs as a phenomenon.

SECOND RESTLE.—The existence of an external world is a necessary postulate, but its existence is only logically affirmed.

From the foregoing it appears that we are unable to know anything respecting things per se; consequently we can never predicate of our knowledge that it has objective truth.

But our knowledge being purely subjective and relative, can we have no certainty?—are we to embrace acepticism? No.

Turum Resear.—Our knowledge, though relative, is certain. We have ideas independent of experience; and those ideas have the obs-

^{*} Compare Knot's fine prisage at the close of the Rieleidung

548 KANE

ractor of universality and accessity. Although we are not entitled to conclude that our subjective knowledge is completely true as an expression of the objective fact, yet we are forced to conclude that within its own where it is true.

FOURTH RESCUT.—The veracity of consciousness is established.

FIFTH RESCUT.—With the veracity of consciousness, is established
the certainty of morals.

It is here we see the importance of Kaut's analysis of the mind. Those who represeds him with having ended, like Hums, in sequencing, can only have attended to his Critique of the Pure Romon, which certainly does, as we said before, furnish a scientific hois for scepticism. It proves that our knowledge is relative; that we cannot assume things external to us to be as we conceive them; in a word, that Ontology is impossible.

So far Kant goes with Hume. This is the goal they both attain. This is the limit they agree to set to the powers of the mind. But the different views they took of the nature of mind led to the difference we before noted respecting the certainty of knowledge. Knot having shown that consciousness, as far as it extended, was veracious; and having shown that in consciousness certain elements were given which were not derived from experience, but which were nacessarily true; it followed that whatever was found in consciousness independent of experience, was to be trusted without dispute.

If in consciousness I find the ideas of God, the world, and virtue, I cannot escape believing in God, the world, and virtue. This latest of mine is, I admit, practical, not theoretical; it is founded on a certainty, not on a demonstration; it is an ultimate fact, from which I cannot escape—it is not a conclusion deduced by reason.

The attempt to demonstrate the existence of God is an impossible attempt. Reason is utterly incompetent to the task. The attempt to penetrate the essence of things—to know things per se—to know nonmena—is also an impossible attempt. And yet that God exists, that the world exists, are irrevisible convictions.

There is another certitude, therefore, besides that derived from demonstration, and this is moral certitude, which is grounded upon belief. I cannot say, 'It is morally certain that God exists,' but I must say, 'I am morally certain that God exists.'

Here then is the basis for a Critique of the Practical Remon, an investigation into the Remon, no longer as purely theoretical, but so practical. Man is a being who acts so well as known. This activity must have some principle, and that principle is freedow of will.

As in the theoretical part of Kuna's system we can the supersensual and unconditioned presupposed as existent (under the name of things per sr), but not susceptible of being known or specified; so in this practical part of the system no find the principle of freedom altogether abstract and indeterminate. It realizes itself in acts.

In the very constitution of his conscience, man discovers the existence of certain rules which he is imperatively forced to impose upon his actions; in the same way as he is forced by the constitution of his reason to impose certain laws upon the materials furnished him from without. These moral laws have likewise the character of universality and necessity. The idea of virtue never could be acquired in experience, since all we know of virtuous actions falls short of this ideal which we are compelled to uphold as a type. The inalterable idea of justice is likewise found, a priori, in the conscience of men. This indeed has been denied by some philosophers; but all a priori truths have been denied by them. They can the erud customs of some savage races as proofs that the idea of justice is not universal." Thus, some tribes are known to kill their old men when grown too feeble; and they test their strength by making these old men hold on to the branch of a tree, which is violently shaken, and those that fall are prenounced too weak to live. But even here, in suite of the atrocity, we see the fundamental ideas of justice. Why should they not alumdon these ared men to all the horrors of famine and disease? and why put them to a test? Look where you will, the varied customs of the various nations peopling the earth will show you different notions of what is just and what is unjust: but the a prior idea of justice-the moral law from which no conscience can be free-that you will find omagresent.

We regret that our space will not possit us to enter further into Kant's system of morality, and his noble vindication of the great idea of daty. But enough has been said to show the dependence of his Critique of the Procedical Resonau upon the principles of his Critique of the Pure Reason; a dependence which some hosty critics have pronounced an unphilosophical consymmise.

§ V. Examination of Kant's Pundamental Principles.

Kant's system presents three important points for our consideration -

⁴ Kast allydes to Locks

 It assigns a limit to the powers of reason, and clearly marks out the domain of scientific inquiry. In this it is sceptical, and furnishes scenticism with terrible weapons.

It proclaims that knowledge has another origin besides enperience; and that the ideas thus acquired are necessarily true. In this the veracity of consciousness is established, and scepticism is defeated.

 It founds upon this veracity of consciousness a system of morals; the belief in a future state, and in the existence of God.

In the course of our exposition we abstained from criticism; certain that it would lead us far beyond our limits to venture on an examination of any but the fundamental principles. The three points above mentioned will, if closely examined, be found to present only one calling for discussion here, and that one is the second.

For the admission contained in the first—viz. that we are unable to know things in themselves—gives up Philosophy as a matter beyond the reach of human intelligence. Scopticism is made the only result of outological speculation. But we are gnarded against such a conclusion entering decyly into practical life, by the demonstration of our lawing ideas independent of experience. This is the second point. Were this second point to fall to the ground, nothing but scepticism could remain. With the second point must stand or fall the third.

The accord point therefore becomes the central and vital point of Kant's system, and must engage our whole attention. All such subsidiary criticism as is current in Germany and France, respecting the impossibility of separating the objective from the subjective elements of a knowledge which is confessedly both subject and object in one, may be safely set uside. Let the possibility be granted; the vital question is not connected with it. The same may be said of the illogicality of Kant's assuming for the practical reason that which he denies to the pure reason. The vital point in his system is, we repeat, the question as to whether we have ideas independent of experience. This is all-important.

And what gives it its importance? The conviction that if we are sent into this world with certain commite principles of truth, those principles cannot be fidse; that if, for example, the principle of causality is one which is antecedent to all experience, and is inseparable from the mind, we are forced to pronounce it as ultimate truth. Let us meditate on this question. As Kant confessedly was led to his own system by the speculations of Hume on causation, and as that is the most important of all the à priori ideas with which the mind is supposed to be furnished, we will content ourselves with examining it. If that he found dependent on experience, all the à priori ideas must be likewise given up. This is the nut we have to crack; its kernel is the kernel of the whole question. Let us first consider these Necessary Truths, as Dr. Whewell calls à priori aleas.

That two parallel lines can never meet is a Necessary Truth. That is to say, it necessarily follows from the definition of a sergight line. To call it, however, on it priori trath, a trath independent of experience, seems to us a very imperfect analysis of the mind's operations. An attempt is made to prove that the ideacould never have been gained through experience, because it commaids universal assent, and because experience itself ould never give it necessity. Dr. Whenell's argument is, that let us follow two parallel lines out as far as we can, we are still anable to follow them to infinity; and, for all our experience can tell us to the contrary, these lines may possibly begin to approach immediately beyond the firthest point to which we have followed them, and so finally meet. Now what ground have we for believing that this possibility is not the fact? In other words, how do we know the axion to be absolutely true? Clearly sof from esperience, sors Dr. Whewell, following Kunt.

We assure, Yes, clearly from experience. For our experience of two parallel lines is previsely this; they entered enclose space. Dr. Whewell says that, for all our experience can tell us to the contrary, the lines may possibly begin to approach each other at some distant point; and he would correct this imperfect experience ler a priori truth. The case is precisely the reverse. The tendency of the mind unquestionably is, to fancy that the two lines will meet at some point; it is experience which corrects this tone dency. There are many analogies in nature to suggest the meeting of the two lines. It is only our reflective experience which can furnish us with the proof which Dr. Whewell refers to sieus independent of all experience. What proof have we that two parallel lines cannot enclose space? Why this; as soon as they assume the property of enclosing space, they less the property of parallelium they are no longer stronged lines, but heat lines. In carrying out inaginatively the two parallel lines into infairty, we have a ten-

dency to make them approach; we can only correct this by a remrrence to our experience of straight lines; we most call up a distinct image of a straight line, and then we see that two such lines cannot enclose space.

The whole difficulty lies in the charmon or obscurity with which the mind makes present to itself past experience. 'Befrain from rendering your torms into ideas,' says Herbert Spencer, 'and you may reach may conclusion whatever. The whole is equal to its part, is a proposition that may be quite confortably entertained so long as neither wholes nor parts are imagined.' But no some do we make present to our minds the meaning of parallel lines, than in that very not we make present the impossibility of their meeting, and only as the idea of these lines becomes wavening, does the idea of their meeting become possible.

Necessary truths,' says Dr. Whowell, 'are those in which we not only learn that the proposition is true, but see that it must be true; in which the negation is not only false, but impossible; in which we cannot, even by an effort of the imagination, or in a supposition, concerve the reverse of that which is asserted. That there are such truths cannot be doubted. We may take, for example, all relations of Number. Three and two make five. We cannot conceive it selectrise. We cannot by any freak of thought imagine three and two to make seven.'

That Dr. Whewell cannot by any freak of thought asse imagine three and two to make seven, is very likely; but that he could never imagine this, is untrue. If he had been asked the question before he had formed to reckon, he would have imagined never quite as easily as fire; that is to say, he would not have known the relation of three and two. Children have no intuitions of numbers; they learn them as they bearn other things. 'The apple and the murbles,' says Herschel, 'are put in requisition, and through the multitude of gingerbread-nuts their ideas acquire clearsees, precision, and generality.' But though, from its simplicity, the calculation of three added to two is with a grown mm un instantaneous art ; yet if you ask him subdenly how many are twice 365, he emnot mover till he has rechoned. He might certainly by a very easy 'freak of throught' (i, s, by an erroneous calculation) imagine the sum-total to be 720; and although when he repeats his reliculation, he may discover the error, and declare 730 to be

⁻ Principles of Psychologic R. Br.

the sum-total, and say, "It is a Necessary Truth that 265 added to 365 make 730," we should not in the least dispute the necessity of the truth, but presume that he himself would not dispute that he had serived at it through experience, namely, through his knowledge of the relations of numbers, a knowledge which he remembers to have laborously acquired when a boy at school.

The foregoing remarks having, we trust, established that the truths of Geometry and Arithmetic, which form one class of the so-called Necessary Truths, are not obtained a priori, independently of Experience, we pass on to the other class, which we would rull Truths of Generalization.

Our example shall be that chosen by Kant; 'Every effect must have a cause.' This is not a more writing out of our conceptions it is not a more explanation, in different terms, of what we mean. It is a wide generalization. Experience can only be experience of individual causes and effects; and although in our conception of an effect the conception of a cause is certainly involved, and in so far the judgment may be supposed an analytic judgment, yet if we look closer, the ambiguity will disappear. The award effect implies as a correlative the word cause. But the Thing we see before us has not imply the existence of some other Thing which caused it; and our judgment that it must lawe had an antecedent cause, is purely synthetic.

When we assert that every effect must have a cause, we assert that which no experience can have warranted. Is the idea therefore acquired through some other channel? No; and the apholders of the doctrines of Innate Ideas, Fundamental Lores of Belief, Categories of the Understanding, and Necessary Truths, rupeur to us to labour under a confusion of thought which a very little well-directed analysis might have cleared up. The confusion is this:-Our experience is obviously incapable of guaranteeing the truth of any universal and necessary idea. But to assume therefore that the idea is independent of experience, is to forget that what experience may not generates, it may suggest; and the universality and necessity of our ideas, is nothing more nor less than the suggestions of the understanding, which by the law of its operation generalizes from particulars, and converts them into universals. We will presently explain this more fully; let us now hear Kant, who distinguishes a pure cognition from an empirical cognition by this mark of accessity and universality. Experience no doubt teaches us that they or that object is constituted in each and such a manner.

but not that it could not possibly exist otherwise.' . . . ' Empirical universality is only an arbitrary extension of the validity from that which may be predicated of a proposition valid in most cases to that which is poserted of a proposition which holds good in all. When, on the contrary, strict universality characterizes a judgment, it recessarily indicates another peculiar source of knowledge, namely, a faculty of cognition a priori. Necessity and strict universality, therefore, are infallable tests for distinguishing pure from empirical knowledge, and are inseparably connected with each other.'s And thiswhere ! 'If we thought to free ourselves from the labour of these investigations by saying, "Experience is constantly offering as examples of the relation of cause and effect in phenomens, and presents us with abundant opportunity of abstracting the conception of cause, and so at the same time of corroborating the objective validity of this conception "-we should in this case he every looking the fact that the conception of cause cannot arise in this way at all; that on the contrary it must either have a basis in the Understanding, or be rejected as a more chimem. For this conception demands that something (A) should be of such a nature that something else (B) should follow from it necessarily, and according to an absolutely universal law. We may certainly collect from phenomena a law, arcceding to which this or that usually happens, but the element of necessity is not to be found in it. Hence it is evident that to the synthesis of empe and effect belongs a dignity which is utterly wanting in any empirical synthesis.'t

Referring to what was said in discussing Hume's theory of cansution, we may pass on to Dr. Whowell's re-statement of Kant's views:—

"That this idea of cause is not derived from experience, we prove (as in former cases) by this consideration: that we can make assertions, involving this idea, which are rigorously necessary and unitereal; whereas knowledge derived from experience can only be true as far as experience goes, and can never contain in itself any evidence whatever of its necessity. We assert that "every Event must have a Cause;" and this proposition we know to be true, not only probably and generally and as far as we can see; but we cannot suppose it to be false in any single instance. We are as vertain of it as we are of the truths of arithmetic and geometry.

^{*} Evaluitung, § H. (Trend., p. 3).

[†] Transcolected Logil, & W (Tremt, p. 74).

We cannot doubt that it must apply to all events, past, present, and to come, in every part of the universe, just as truly as to those occurrences which we have ourselves observed. What causes produce what effects;—what is the cause of any particular event; what will be the effect of any peopliar process; these are points on which experience may enlighten us. But that every event must have some cause, Experience cannot prove any more than she can disprove. She can add nothing to the evidence of the truth, however-often she may exemplify it. This doctrine then cannot have been acquired by her teaching; and the Idea of Cause which the doctrine involves, and on which it depends, cannot have come into our musts from the region of observation."

There is one minor point in this argument which we must solice first. Dr. Wheseell says that the proposition 'Every event must have a cause' cannot possibly be false in any one instance. We think there is one, which he himself would admit; but to make it clear, we must substitute an equivalent for 'event.' The abstract formula of causation is this: 'Every existence presupposes some Cause of its existence: ex sibile aibil fit.' And this formula is employed against the atheists, to prove that the world could not have made itself out of Nothing, ergo it must have had a Cause. Now the obvious answer has often been given, namely, that the Cause itself must have had a Cause, and so on as inflation. Nevertheless, as reason repugns such an argument, and as it declares that assesshere the claim of causes and effects must stop, in that very declaration it falsifies the formula of causation—' Every resistance must have a cause.'

Let not this be thought quibbling; it is only an exposure of the weakness of the theory of causation. If that theory be correct—
if the formula is a necessary Truth, objectively as well as subjectively, the argument against atheirs falls to the ground. For, would the atheist argue, this is the dilemma either the chain of causes and effects must be extended to infinity; or you must stop somewhere, and declare that the ultimate Existence has no cause. In the first case you fall into unlimited scepticism; in the second you fall into atheism, because the world is an Existence of which we are assured why, then, is not if the ultimate Existence? You have no right to assume any prior cause; if you must stop somewhere, it is more rational to stop there.

[&]quot; Phillip Bul, rie, rol i p. 189-

This dilemma admits of but one escape-hole, namely, the denial of the formula 'Every existence presupposes a cause' being anything more than a psychological law. Curiomly enough, the only hophole is in the decrease maintained by David Hume—a dectrue for so many years supposed to be the inlet of theological ocquticism!

Our belief in the formula ' Every event must have a curse,' is founded entirely on experience: is, indeed, nothing more than our

experience generalized.

To prove this, we will consider a single case of canadion. A child burns his finger in the randle; he then believes that a candle will abruye burn his fingers. Now we are asked how it is that the child is led to believe that the candle will always burn his finger; and the answer usually afforded is, that 'he is irresistably led to believe in the uniformity of nature;' in other words, the idea of enumlity is a fundamental idea.

We answer, The child believes the condle will hum, because the experience be has of a candle is precisely this experience of its burning properties. Before he had burnt his flager, his experience of a candle was simply of a bright thing which set paper alight, thaving new extended his experience, the candle is to him a bright thing which sets paper alight, and which causes pain to his frager when placed in contact with it."

According to the well-known law of association, the flame of a candile, and pain to the finger applied to it, are united, and form one experience. This particular act of causation is therefore nothing but a simple experience to the child; and for the perfection of this experience it is in nowise needful to assume that the child has any helici in the 'connection of events,' or in the 'uniformity of the laws of Nature.' No fundamental idea is necessary for the particular belief. In it then necessary for the helici in the general proposition—' Every effect must have a cause?'

When Knot and the Kantists say that no perticular act of consution can be inferred a priori (such, for example, as that the will melt the solid wax); but that nevertheless consulity itself can be inferred a priori, i. e. we are constrained to believe that some-

* See p. 100 sq., whose the organizat is stored more fully.

[†] This is denied by the thickers when we are now combining: they means that the fundamental thin is necessary; but this is a more assumption unde for the yarpose of saving their theory, in managing of the very post of tions.

thing will follow the application of fire to the wax, and this a priori valgment is independent of experience, - they seem to use to fall into the error of confounding the general with the porticular. No general proposition is possible except as an expression of particular propositions; and all particular propositions are the expression of particular experiences. 'That all bons are carnivorous' is only intelligible as a general proposition after one or more lions have been recognized as carnivorous; that 'every effect must have a cause' is only conceivable after many particular esperiences of causes and effects. No particular act of causation can be inferred a polari, became for each particular inference we need the basis of particular experience; but general causation seems possible to be inferred it printi, because in the full-statured mind general consulton has a basis of general experience. I must know that fire does melt was, before I can infer that it will melt was a but I can infer that fire will do something to wax, after my general experience of fire is, that it has always done something to bodies. This general inference is founded on and limited by general experience, in the same way as particular inferences are founded on particular experience. The uncultured mind will be as pomerless to-deduce the general inferrues, as the cultural mind is, to deduce the particular inference, à svieri; and so true is this, that only philosophical thinkers are capable of steadily believing in that causality which Dr. Whewell designates as a fundamental idea.

Thus, belief in particular has of canonicus is no more than belief in any experience; and if we are asked why we believe that our flature experience will resemble the past, we answer, because we have no other possible belief of things than that which is formed by experience: we cannot possibly believe the candle as see burning us in future, because our experience of a candle has been, that it also burn, and our beliefs cannot transcend the experience which made them.

As to the belief in universal constation, we may prove in various ways that it is the result of a more act of generalization; and this very art itself is strictly limited by experience: that is to say, we see bod by the laws of our mind to judge of the unknown according to the known. Thus, busing found every event which has come under our cognitioned produced by some cause, we conclude that every possible event must have a cause. We judge of the unknown by the known. Panellar dissertations of this generalizing tendency are those such judgments formed of nations and of classes, and

558 KANV.

founded on the experience of a single fact. Thus we once heard it gravely asserted, that 'all' French babies had long noce.' The person asserting it had seen a French haby with a long nose. New the only conception of a French baby in this person's mind was that of a babe with a long nose. That was the type seconling to which all maseen, unknown babies were indeed. Not being a very reflective person, he could not divest himself of his conception, and he could not believe that his conception was not true of all French babies. Had he never seen other French babies, he would perhaps have died in the belief that they all had long noses; unless some better-informed person had corrected this conception by his larger experience. So, if we lost only the experience of one fact of cansetion, we should always believe in that fact-we should always believe that all candles would burn. To make many similar experiences of the conjunction of cause and effect, is not only to have many beliefs in particular acts of causation, it is also to collect materials for a wide generalization, and from these known conjunctions to pronounce that formula of universal conjunction applied to unknown and yet unborn events.

This latter process however is performed by few. All believe irresistibly in particular acts of causation. Few believe in univeral emsation; and those few not till after considerable reflection. Pailosophers indeed assure as that this belief is universal; that it is an isstinet; a law of the mind; a Fundamental Idea. If philosphers would take the trouble to inquire amongst intelligent people, they would find that, so far from the belief in question being instinctive and irresistible, the great majority have no consciousness at all of such an instinct—the belief never laying once presented itself to their minds-the proposition requiring a great deal of explanation and argument before it can be received; and amongst those persons many would absolutely refuse to admit the truth of the proposition. Those who live only amongst philosophers will doubt this. We can however declare that it has more than once come within our experience. We have argued with a student of chemistry, whom we found it impossible to convince that the law 'Every event has some cause' is universal. He not only could conceive it to be otherwise in the moon; but he looked upon our argument as an unwarrantable assumption. The mystery of this was, that he had never read any metaphysics, and had but mediocre powers of ratiocination. What shall we say to an instructive belief, which, unlike all other instinctive beliefs, does not

spontaneously present itself to our consciousness; and when presented, is with the atmost difficulty accepted; and accepted only by some? Compare this with any other instinctive belief—that in the existence of an external world, for instance—and see what characters the two base in common. Ask a boor if he believe in the existence of the world, and he will think you mad to ask him. Ask an ordinary man if he believe that every effect must have a mise; and the chances are, that he will tell you he does not know; you will find it difficult to make him understand the necessity.

Nay, to leave ordinary men, and to confine ourselves to philosophere, amongst them we shall find that, with respect to one class of phenomena, more than one-half of the thinking world is firmly consinced that every effect does not imply a cause; the class of phenomena referred to are those of human relitions. All those who exposes the doctrine of Freedom of the Will declare that all our volitions are self-caused,—that is to say, our volitions are not caused by mything external to themselves, not determined by my prior fact.

If, then, speculative men can be led to believe that one large class of phenomena is not amenable to the law of cause and effect, what becomes of the assistereality of canastion? And if speculative men can conceive the laws of cause and effect to be absent from some phenomena, and ordinary men do not conceive these laws to be universally applicable, what becomes of the ascessity? And if the mass of mankind require a considerable quantity of argument and explanation to make them understand the proposition, what becomes of the instinctive letter?

It is argued that a belief in a particular set of constation is only possible on the assumption of a fundamental idea of consulty inhetent in the mind; that, although a child may never have had the formula. Every effect must have a cause' presented to his mind, nevertheless this formula is implicitly in his mind, otherwise he would have no reason for believing in the particular set; it must exist as a fundamental idea. We might as rationally argue that a child cannot have an idea of a man without previously having a fundamental idea of humanity.

The fallacy lies in this: the fundamental idea of consulity is a generalization. Now, of course, the general includes the particuiars; but though it isolades, yet it does not precede them, and the error is in supposing that it must and does precede them. A boy, as Locke says, knows that his whole body is larger than his finger; 5EB EAST.

but he knows this from his perceptions of the two, not from any knowledge of the axiom that the 'whole is greater than a part.' Dr. Whereill would say that he could not have such knowledge unless he had the fundamental iden; whereas, we side with Locke in asserting that the mind in such cases never begins with generalities, but each with them; and to say, that because the percent axiom implies the particular instance, or that the particular instance implies the general axiom, therefore the axiom is independent of experience, is to sheat onesoff with words.

The belief in equation is belief founded upon the experience of

particular acts of causation.

The irrevistible tendency we have to acticipate that the future course of events will resemble the past, is simply that on have experience only of the past, and, as we cannot breascend our experience, we cannot conceive things really existing otherwise then as we know known them. From this we draw a conclusion strikingly at variance with the doctrine maintained by Kant and Dr. Whewell. We say, that the very fact of our being compelled to judge of the anknown by the known-of our irresistible anticipating that the finure course of events will resemble the post-of our inequeity to believe that the same effects should not follow from the same causes -this very fact is a trimuphant proof of our having no ideas selacquired through experience. If we had a priori ideas, these, as independent of, and superior to, all experience, would enable us to judge the unknown according to some other standard than that of the known. But no other standard is possible for us. We cannot by my effort believe that things will not always have the properties un have experienced in them; as long as they continue to raist, we must believe them to exist us we know them.

Although belief in particular acts of causation is irresultible and universal, yet belief in the general proposition 'Every effect must have a cause' is neither irresistible nor universal, but is entertained only by a small portion of mankind. Consequently the theory of a priori ideas independent of all experience, receives no support from the idea of Causality.

In a 'Letter to the Author of the Prolegonese Logica,' Dr. Whowell has re-stated his views, to meet the objections of his critics; and as this is the latest development of the Kantian electrine which I have seen, it may not be minutractive to consider it.

Dr. Wheseil's main positions are, that Nexessary Truths, or Funsamental Ideas, are independent of experience, and are intuitions, which are some not only to be true, but accessivily true, because their contraries are inconcenable. The only condition presupposed is, that the Ideas be clearly conceived. He says: "I lay stress on the condition that the Ideas must be clearly and distinctly possessed. The Irles of Space must be quite clear in the mind, or else the Axioms of Geometry will not be seen to be true: there will be no intelline of their truth; and for a mind in such a state, there can be no Science of Geometry. A man may have a confused and perplexed, or a vacast and mort state of mind, in which it is not clearly apparent to him, that two straight lines cannot enclose a space. But this is not a frequent case. The Idea of Space is much more commonly clear. in the minds of men than the other lileas on which service depends, as Force or Substance. It is much more common to find minds in which these latter Ideas are not so clear and distinct as to make the Axions of Mechanics or of Chemistry self-evident. Indeed, the examples of a state of mind in which the Ideas of Force or of Substance me so clear as to be made the basis of science, are comparatirely few. They are the examples of arinds scientifically cultivated, at least to some extent. Hence, though the Axioms of Merhanics or of Chemistry may be, in their own nature, as evident as those of Geometry, they are not evident to so many persons, nor at so early a period of intellectual or scientific culture. And this being the eme, it is not surprising that some persons should doubt whether these Axioms are evident at all; I should think that it is an error to assert that there exist, in such sciences as Meclanics or Chemistre, Fundamental Ideas fit to be classed with Space, as being, like it, the origin of Axioms."

Aware that many of these intuitive ideas are so far from being miserally neknowledged that many persons can conserve the contrarge, he adds:—

'This difficulty has been strongly unged by Mr. Mill, as supporting his view, that all knowledge of truth is derived from experience. And in order that the opposite doctrine, which I have advocated, may not labour under any disadvantages which really do not belong to it, I must explain, that I do not by my means assert that those truths which I regard as necessary, are all equally evident to common thinkers, or evident to persons is all stayes of intellectual developness. I may even say, that more of those truths which I regard as measury, and the necessity of which I believe the human mind to be employed of seeing, by the properties and thought is rare and peculiar; that this amount of preparation and thought is rare and peculiar;

and I will willingly great, that to attain to and preserve such a elearness and subtlety of round as this intuition requires, is a lank

of an ordinary difficulty and lobour."

What, it may be asked, is all this preparation, and labour, but experience? If these Fundamental Ideas are 'Intuitions' which cannot be given by experience, but are above and beyond it, how is all this experience needed before these Necessary Truths can be seen to be true? Dr. Whewell is ready with his answer:—

That some steady thought, and earn some progress in the renstruction of Science, is needed in order to see the necessity of the Axioms thus introduced, is true, and is repeatedly asserted and illustrated in the History of the Sciences. The necessity of such Axioms is seen, but it is not seen at first. It becomes elemer and clearer to each person, and clear to one person after another, as the human mind dwells more and more steadily on the several subjects of speculation. There are scientific trutts which are seen by intuition, (a) this intuition is progressive. This is the remark which I wish to make, in answer to those of my critics who have objected that truths which I have propounded as Axioms, are not critical to all.!

That this is no answer at all, but is virtually a concession of the very point in dispute, will be seen by an attentive perusal of the following passage, wherein he brings his new form of the doctrine intogreater distinctness:—

"An able writer in the Edwards Review (No. 193, p. 29) has, in like manner, said, "Dr. Whewell seems to us to have gone much too far in reducing to necessary truths what assuredly the generality of markind will not feel to be so." It is a fact which I do not at all contest, that the generality of sandinal will not feel the Axioms of Chemistry, or even of Mechanics, to be necessary truths. But I had said, not that the generality of mankind would feel this necessity, but (in a passage just before quoted by the Beviewer) that the mind under certain circumstances alteries a point of rice from which it can pronounce mechanical (and other) fundamental truths to be necessary in their nature, though disclosed to as by experience and observation."

If these truths, said to be intuitive and independent of experience, are by Dr. Whowell confessed to be 'disclosed by experience,' three can be but one point of separation between him and his critics; and, if I have understood him aright, that point is the character of 'necrosity,' which, in common with Kant, he excribes to these truths. The fundamental ideas, when seen, are seen to be not only true, but necessarily true; and in this necessity lies their distinctive characteristic.

I conceive that no such distinction whatever can be made out between traths which are necessary and truths which are contingent: All truth is accessary truth. Although all spissons are by no means of one character, some being evident, some probable, some very uncertain; yet all truths are true. That 'fire burns' is a truth as 'necessary' as that two parallel lines cannot enclose space. That sulphur has a greater affinity for iron than for lead, is a truth as 'necessary' as that the whole is greater than a port. That ironrest is owing to the action of oxygen, is as 'necessary' a truth as that two and two make four. It is our knowledge which is contingent, not the truth itself. We may be in error when we believe the fact of sulphur's greater affinity for iron than for lead; in matters so ill-understood as chemical actions, error is very conceivable, and our supposed truth may turn out a misconception; but if the relation be truly stated, the truth is as 'necessary' as that two and two make four. The whole question therefore that can be raised is: In the asserted relation true? and not; Is the truth necessary?

To make this cleaver, let us, instead of the proposition "two seal two make four," substitute "seventy-two and one hundred and forty make two hundred and twelve." In the one case error is impossible; by no freak of thought can we conceive two and two as making five ; the truth is perceived directly, and the inconocivability of the contrary is confessed. In the latter case error is very possible; unless a careful calculation be made, the mind may fall into crepe, i.e. conceive the contrary of what is true. But in each case the truth expressed is the relation of numbers, which we ascertain by experience. So also the proposition ' first burns' is a necessary truth, the contrary to which is as inconceivable as the contrary of 'two parallel lines can sever enclose space." For although we can imagine it "possible" that fire, under some circumstances, should not burn, we can only imagine it by mentally substituting for fire some other thing called by that more, just as we can only imagine parallel lines enclosing space by mentally bending the lines, and making them other than parallel.

Truths are nothing but perceived relations; some of these relations are so simple, or so universally presented to our experience, that we cannot conceive them to be otherwise; and thus no freak of thought will enable us to conceive fire not burning, two and two making five, or parallel lines enclosing space; while other relations

are so complicated, or so unfamiliar, that we very easily concrite the possibility of their being otherwise. The exidation of substances is so familiar to the chemist, that he cannot conceive what to the general public is very conceivable; the relations of lines and surfaces are so familiar to the geometer, that he cannot conceive the contrary of Euclid's propositions; to him they are irresutible truths; but he can remember the time when they were by no means irresutible. Dr. Whewell explains this difference by the difference in the clearness with which the geometer 'possesses the Idea of Space,' a clearness only to be obtained through great labour and training of the mind; and we think no philosopher ever propounded any other explanation, certainly no philosopher belonging to the school which derives all our ideas from experience.

The distinction then between the so-called Necessary and Contingent Truths is not, that the former are independent of experience, and are truths seen to be accomposite true, while the latter are seen to be contingently true, the contraries being contrivable. All truths are seen to be necessarily true, if they are seen to be true at all; and the character of confugency is not applicable to the relations eapressed in certain formulas, but solely to the modes in which we got at those formulas; the contingency of 'seventy-two and one lundred and forty making two hundred and twelve' is the liability of our miscalculating; and the proposition is a contingent one mail we have so checked our calculation as to be certain we have meertained the true relations. Thus it is held, that all animals with ineisor teeth are comirorous; we have ascertained it by our universal experience of carnivorous minuls; but, strong as the prosumption is that the relation is true, we are forced to consider it a contingent truth, because there is a possibility of our experience some thy detecting an exception 1 just as exceptions have been detected to the general relation between comparative length of the intestine in herbivorous, and shortness of it in carnivorous, animals. But we never call the proposition 'n whole is greater than its part' a contingent troth, because no extension of experience could alter relations so simple and so universal; we cannot call 'fire huras paper' a contingent truth, because no extension of experience can alter relations so simple: if, by way of exception, a case of incombustible paper be exhibited, we know that the original proposition meant ordinary paper, and not paper of different properties. We cannot call the truth 'sugar is sweet' contingent, because any extension of our expersence which made us acquainted with sugar not sweet, would

bring forward some other kind of thing than that which we designate by the name of sugar. We cannot call the truth 'iron is heavy' contingent. We can call no truths contingent except those which express relations either complicated or unfamiliar; simplicity of relation implying directness of perception, and universality of experience correing the mind into uniformity of expectation. The Fundamental Ideas which Dr. Whewell distinguishes as Necessary Truths are nothing more than ideas framed in our minds by the aniformity of our experience. And thus we return to the old position, that experience, and experience alone, is the source of all ideas.

If the foregoing arguments are valid, what becomes of Kant's system? We are forced to conclude, that inasmuch as his stronghold—the existence of a priori ideas—cannot sustain attack, the entrance of the enemy Scepticism is inevitable. Kant was not a sceptic; but he deceived himself in supposing that his system was any subgrand from Scepticism.

The verseity of Consciousness, which he had so laboriously striven to establish, and on which his Practical Resson was based, is only a relative, subjective verseity. Experience is the only basis of Knowledge; and Experience leads to Scopticism.

NINTH EPOCH.

ONTOLOGY REASSERTS ITS CLAIM.—THE DEMON-STRATION OF THE SUBJECTIVITY ONCE MORE LEADS TO IDEALISM.

CHAPTER L.

FIGHTE.

§ 1. Lara or Pienra.

JOHANN GOTTLIEB FIGHTE was born at Rammenan, a cillage lying between Bischofswerds and Palsais, in Upper Lusatis, on the 19th May, 1762.*

His childhood, of which many touching aneedotes are related, was signalized be extraordinary intellectual espacity and great moral energy. He was a precocious child, and long before he was old enough to be sent to school be learned many things from his father, who taught him to read, and taught him the pious songs and proverbs which formed his own simple stock of emdition. With these various studies was mixed an enchanting element—the stories of his early wanderings in Saxony and Francouiz, stories to which young Johann listened with never-tiring engerness. It was prohably the vague longings which those recitals inspired, that male him wander into the fields, quitting his companions, hoisternas in mirth, to roun away and enjoy the luxury of solitude, there to got vent to the indulgence of those unspeakable longings. This pale and meditative child is at ease in solitude. He stands for hours, going into the far distance, or in mouraful yearning at the silent sky over-arching him. The sun goes down, and the boy returns home melancholy with the twilight. He does this so constantly that neighbours remark it; comment on it; and, in after years, when that boy has become a renowned man, they recur to it with sudden pleasure, not forgetting also that they find ' always said there was something remarkable in the boy."

^{*} See the irregraphy by Fighte's new-Fighte's Lobes and intrarrischer Brief-received, 2 colo., 1806.

Fichte's progress was so rapid that he was soon entrusted with the office of reading family prayers; and his father cherished the hope of one day suring him a elergyman. An event enrious in itself, and very important in its influence on his subsequent career, soon occurred, which favoured that hope, and went far to realize it. But before we relate it we must give a touching ancedote, which rabilits Fichte's heroic self-commund in a very interesting light."

The first book which fell into his hands after the Bible and Catechism, was the renowned history of Singfried the Hornest, and it seized so powerfully on his imagination, that he lost all pleasure in any other employment, became carcless and neglectful, and, for the first time in his life, was punished. Then, in the spirit of the injunction which tells us to cut off our right hand if it cause us to refinal, Fichte resolved to sacrifice the beloved book, and, taking it in his hand, walked slowly to a stream flowing past the house, with the intention of throwing it in. Long he largered on the bank, ere he could muster courage for this first self-commest of his life; but at length, summoning all his resolution, he flung it into the water. His fortifule gave way as he saw the treasure, too deady loved, floating away for ever, and he burst into a possionate flood of tenra-Just at this moment the father arrived on the spot, and the weeping child told what he had done; but either from timidity or inexparity to explain his feelings, was silent as to his true motive. Irritated at this treatment of his present, Fichte's father inflicted upon him an unmually severe unashment, and this occurrence formed a fitting prelude to his after-life, in which he was so often prisonderstood, and the actions springing from the purest convictions of duty, were exactly those for which he had most to suffer. When a sufficient time had classed for the offence to be in some measure forgotten, the father brought home another of these seducing books; but Fichte dreaded being again exposed to the temptation, and begged that it might rather be given to some of the other children.

It was about this time that the other event before alluded to ocemred. The chargement of the village, who had taken a fancy to Gotttich and often assisted in his instruction, happened one day to ask him hear much by thought he could remember of the sermon of the preceding day. Fighte made the attempt, and, to the astenishment

^{*} For both sarrolates on are indulted to a very intercenting article on Pichto-which appeared in the Possipa Quarterly Review, No.71. We have abridged the passages; otherwise the narrative is scalared.

568 FIGURE

of the paster, succeeded in giving a very toleralde account of the course of argument, as well as of the texts quoted in its illustration, The circumstance was mentioned to the Count you Hoffmansegg, the lord of the village, and one day another nobleman, the Barres von Mittie, who was on a visit at the eastle, happening to express his regret at having been too late for the sermon on the Sunday morning, he was told, half in jest, that it was of little consequence, for that there was a boy in the village who could repent it all from memory. Little Gottlieb was sent for, and soon arrived in a rless smock-frock and bearing a large nosegay, such as his mother was accustomed to send to the castle occasionally as a token of respect, He answered the first questions put to him with his accustomed quiet simplicity; but when asked to repeat as much as he could recollect of the morning's sermon, his voice and manner because more animated, and, as he proceeded, entirely forgetting the preseace of the formidable company, he became so fervid and abundant in his eloquence, that the Count thought it necessary to interrupt him, lest the playful tone of the circle should be distrayed by the serious subjects of the sermon. The young preacher had however made some impression on his auditory; the Baron made inquiries concerning him, and the elergyman, wishing for nothing more than an opportunity to serve his favourity, gave such an account that the Beron determined to undertake the charge of his education. He departed, carrying his gradied with him, to his castle of Socheneichen, in Saxony, mur Meissen, on the Elbe; and the heart of the poor village boy sunk, as he beheld the gloomy grandeur of the haronial hall, and the stark cele forests by which it was sugrecorded. His first sorrow, his severest trial, land come in the shape of what a mis-judging world might regard as a ringular piece of good fortune, and so deep a dejection fell on him, as serisusly to endanger his health. His potron here manifested the really kindly spirit by which he had been actuated; he entered into the feelings of the child, and removed him from the lordly mansion to the abode of a country dengyman in the neighbourhood, who was passionately fond of children, and had none of los seen. Under the truly paternal care of this excellent man, Facint passed some of the happiest years of his life, and to its latest day looked back to them with tendernous and gratitude. The affectionate care of this smisble couple, who shared with him every little domestic pleasure, and treated him in every respect as if he had been indeed their son, was always remembered by him with the

limitest sensibility, and certainly excressed a most favourable inflaence on his character.

In this family, Fielder received his first instruction in the languages of satisfuity, in which however be was left much to his own efforts, sciolom receiving what might be called a regular lesson. This pion, though it andoubtedly invigorated and sharpened his familties, left him imperfectly acquainted with grammar, and retarded, in some measure, his subsequent progress at Schulpforts. His kind preceptor soon perceived the inefficiency of his own attainments for advancing the progress of so promising a pupil, and urged his patron to obtain for Fielder what appeared to him the advantages of a high school. He was accordingly sent, first to Meissen, and afterwards to the semisory at Schulpforte.

There the system of fugging existed in full force, and with its usual consequences, tyramay on the one side, dissimulation and cuming on the other. Even Fichte, whose native strength of character in some measure granded him from evil influences that might have been fatal to a mind of a feebler order, confesses that his life at Sobulpforte was anything but favourable to his integrity. He found himself gradually reconciled to the necessity of rading his conduct by the opinion of the little community around him, and compelled to practise occasionally the same artifices as others, if he would not with all his talents and industry be always left behind.

Into this microcosm of contending forces the boy of thirteen. aurtured amidst lonely hills and silent forcers, now found himself thrown. The mountic glasss of the buildings contrasted at first most painfully with the joyous freedom of fields and woods, where he had been accustomed to wander at will; but still more painfally, the salitarly of the moral desert. Shy and shrinking within hinself he stood, and the tears which famished only subjects of markery to his companions were found lark, or taught to flow only in userst. Here however he learned the useful lesson of selftelemee, so well though so hitterly taught by want of sympathy in those around us, and from this time to the close of his life it was never forgotten. It was natural that the idea of escape should occur to a how thus encounstanced, but the dread of being retaken and brought back in discrete to Schulpforte occasioned hesitation. Whilst brooding over this project, it Impered that he mot with a copy of Robinson Crusse, and his cuttersiasm, the cuthusiasm of thirteen, was kimiled into a litzer. The desert should be his dwelling-place! On some far-off island of the ocum, beyond the reach

570 FIGURE.

of men and the students of Schulpforte, he would pass golden days of freedom and happiness. It was a common boxish notion, but the manner in which it was carried into execution shows traces of the character of the individual. Nothing could have been caster than for him to have taken his departure unpercrived on one of the days when the scholars were allowed to go to the playground; but he second to steal away in secret; he would have this step appear as the result of necessity and deliberate eletermination. He therefore made a formal declaration to his superior, a lad who had made a cruel and oppressive use of the brief authority entrusted him, that he would no longer endure the treatment he received. but would leave the place at the first opportunity. As may be smaposed, the automorment was received with succes and laughter, and Fichte now considered himself in all honour free to fulfil his resolution. It was easy to find an opportunity, and necordingly, having taken the precaution to study his proposed route on the map, he set off, and tradged on stoutly on the road to Nanmberg. As he walked, however, he bethought himself of a saying of his befored old pastor, that one should never begin an important oudertaking without a prayer for Divise assistance; he turned therefore, and kneeling down on a green hillock by the readside, implored, in the innocent sincerity of his heart, the blessing of Heaven on his wanderings. As he praced it occurred to the new Robinson that his disappearance must occasion grief to his parents, and his joy in his wild scheme was gone in a moment. 'Nover, perhaps, to see his parents again!" This terrible thought suddealy presented itself with such force that he resolved to retrace his steps, and meet all the nunishments that might be in store for him, ' that he might look once more on the face of his mother."

On his return, he met those who had been sent in pursuit of him; for as soon as he had been missed, the 'Obergreell' had given information of what had passed between them. When carried before the Rector, Fiehte immediately confessed that he had intended to escape, and at the same time related the whole story with such straightforward simplicity and openness, that the Rector became interested for him, and not only remitted his punishment, but chose for him, among the elder lads, another master, who treated him with the greatest kindness, and to whom he became warmly attached.

Fichte had become a Caudidatus Theologie, when his patron died, and with him died all hopes of being a dergyman. His prospects were gloomy in the extreme; but he was relieved from maxiety by being offered the situation of private tutor in a family in Switserland. He soon afterwards made acquaintance with Lavater and some other literary men. He also formed an attachment, which was to last him through life, with a nicce of Klopstock.

Fichte's intorship was remarkable. The parents of his pupils, although neither perfectly comprehending his plans, nor approving of that part which they did comprehend, were nevertheless such admirers of his moral character-they stood in such respectful sweof him-that they were induced to submit their own conduct with respect to their children to his judgment. We presume that all well-meaning tutors occasionally make suggestions to parents respecting certain points in their conduct towards the children; but Fichte's plan is, we finey, quite unexampled in the history of such relations. He kept a journal which he laid before them every week, and in which he had noted the faults of conduct of which they had been quilty. This lets us into the secret of Fichte's firm and truthful character, as much as anything we know about him. It was from such a soil that we might expect to find growing the moral doctrines which afterwards made his name illustrious. But this demestic conscessio could not last long; it listed for two years; and that it should have lasted so long is, as has been remarked, strong evidence of the respect in which his character was held. But it was irksome, insupportable, and ended at length in mutual dissatisfaction. He was forced to seek some relier mode of subsistence. He went to Leipzig, where he gave private bosons in Greek and Philosophy, and became acquainted with the writings of Kant. This was an important event to him. Hear in what terms he speaks of it :-

"I have been living, for the last four or five months in Leipzig, the happiest life I can remember. I came here with my head full of grand projects, which all burst one after another, like so many scap-bubbles, without leaving me so much as the froth. At first this troubled me a little, and, half in despair, I took a step which I ought to have taken long before. Since I could not alter what was sithout me, I resolved to try to alter what was within. I throw myself into philosophy—the Kuntian, videfacet—and here I found the true antidote for all my svils, and joy enough into the largain. The influence which this philosophy, particularly the ethical part of it (which however is unintelligible without a previous study of the Kritik der reises Fermusii), has been upon my whole system of

572 FIGHTS.

thought, the revolution which it has effected is my mind, is not to be described. To you especially I own the declaration, that I now believe, with my whole heart, in free will, and that I see that under this supposition alone can duty, virtue, and morality have any existence. From the opposite proposition, of the necessity of all human actions, must flow the most injurious consequences to society; and it may, in fact, be in part the source of the corrupt morals of the higher classes which we hear so much of. Should any one adopting it remain virtuous, we must look for the cause of his purity classwhere than in the innocuousness of the dectrine. With many it is their want of logical consequence in their actions.

'I am furthermore well convinced, that this life is not the land of enjoyment, but of labour and toil, and that every joy is granted to us but to strengthen us for further exertion; that the management of our own fate is by no means required of us, but only selfculture. I trouble myself therefore not at all concerning the things that are without; I endeayour not to supear, but to be. And to this perhaps I owe the deep tranquility I mjor; my external position however is well enough suited to such a frame of mind. I am no man's master, and no man's slave. As to prospects, I have none at all, for the constitution of the church here does not suit me, nor, to say the truth, that of the people either. As long as I can maintain my present independence I shall certainly do so. I have been for some time working at an explanatory abridgment of Kant's Kritik der Urtheilskraft (Critical Inquiry into the Familty of Judgment), but I am afraid I shall be obliged to come before the public in a very immostore state, to prevent being forestalled by a hundred vampad-up publications. Should the child over make its appearance, I will send it to you."

It was in consequence of his admiration of Kant, that, after several ineffectual attempts to settle himself, he went to Könipsherg. Instead of a letter of introduction Fichte presented Kant with a work, written in eight days, and which beer the title of a Critique of every possible Revolution. Kant at once progulated his peer, and received him warmly. But Kant himself, though relebrated, was raither rich nor influential. Fichte's affairs were desperate. We have his own confession in the fragment of a journal which he kept at the time.

^{*} It was never printed; probably become as to hire anticipates, he was reconsided.

"38th dayset.—I yesterday began to revise my Critique. In the course of my meditation some new and excellent ideas were exceptioned, which convinced me that my work was superficial. I endeadorsed to corry out my investigation today; but my imagination led me so far away, that I could do nothing. I have reckeded my function, and find that I have just enough to subsist on for a fortalight. It is true this is not the first time in my life that I have found myself in such an embarrassment, but I was then in my own cremitry; besides, in growing older, one's sense of honour becomes more delicate, and distress is more and more of a hardship.

. . . I have not been able to make any resolution. I certainly shall not speak on the subject to M. Borowsky, to whom Kant has given me an introduction. If I speak to any our, it shall be to Kant himself.

"1st Sept.—I have made a resolution which I must communicate to Kant. A situation as tutor, however relactantly I might accept it, does not even offer itself; while, on the other hand, the invertitude in which I am placed does not allow me to work. I must
return home. I can perhaps hornow from Kant the small sum
successary for my journey. I went to him today for that purpose,
but my courage failed me; I resolved to write to him.

' and Sept .- I finished my letter to Kunt, and sent it.

"3rd Sept.—Received an invitation to dinner from Kant. Ho received me with his usual eccelulity; but informed me that it would be quite out of his power to accede to my request for another fortnight. Such aniable fundances!

"I have done nothing lately; but I shall set myself to work, and lowe the rest to Providence.

"67A Sept.—Direct with Kant, who proposed that I should sell the MS, of my Critique to Hartung the bookseller. "It is admirably written," said he, when I told him I was going to rewrite it. Is that true? It is Kant who says so.

'12th Sept.—I wanted to work today; but could do nothing. How will this end? What will become of me a week hence? Then all my money will be gone.'

These extracts will not be read without emotion. They paint a curious picture in the life of our philosopher: a life which was little more than a perpetual and energetic combat.

The Critique was published anonymously, and gained immense appliance; partly, no doubt, became it was generally mistaken for the production of Kant binnelf. The celebrity he acquired when 574 FIGHTS:

the anthorship was disclosed, was the means of procuring him the chair of Philosophy at Jens, the offer of which was made him towards the end of 1793.

Jean was then the leading University of Germany; and Eichte might flatter himself that at length he had a settled position, in which he might calmly develope his scientific views. But his was a Fighter's destiny. Even here, at Jena, he found himself soon opposing and opposed. His endeavours to instil a higher moral feeling into the students—his anxiety for their better culture—only brought on him the accusation of endeavouring to undermine the religious institutions of his country; and his speculative views brought on him the charge of atheism.

Atheism is a grave charge, and yet how lightly made! The history of opinion abounds in instances of this levity; yet scarcely over was a charge more groundless in appearance than that against Fields, whose system was atheistic only in superficial appearance. Nevertheless the cry was raised, and he had to buttle against it. It is understood that the Government would have been willing to overlook the publication of the work which raised this cry, if Fichte had made any sort of explanatory modification; but he would not hear of it, tendered his resignation, and soon afterwards found an asylum in Prussia, where he occupied the Chair at Erlangen, and afterwards at Berlin. From his career at Berlin we will select one incident typical of his character.

The students are assembled in crowds to hear their favorrite professor, who is to lecture that day upon duty,—on that duty whose ideal grandeur his impositioned obsquence has revealed to them. Fighte arrives, calm and modest. He becomes with his usual dignified calmness, rising into fiery bursts of eloquence, but governed by the same marvellous rigour of logic as before. He leads them to the present state of affairs. On this topic he grows still more animated; the rolling of draws without frequently drowning his voice, and griing him fresh spirit. He points to the bleeding wounds of his country; he warms with hatred against oppressors; and enforces it as the duty of every one to lend his single arm to seen his country.

'This course of lectures,' he exchains, 'will be suspended till the end of the campaign. We will resume them in a free country, or die in the attempt to recover her freedom.' Loud shouts respondenring through the hall; chapping of hands and stamping of feet make answer to the rolling drams without; every German Leart there present is moved, as at the sound of a trumper. Fichte descends; passes through the crowd; and places himself in the ranks of a corps of volunteers then departing for the army. It is the commencement of the memorable comparing of 1813.

In another year he was no more; he fell, not by a French bullet, but by the fever caught while tending his loved wife, who herself had fallen a victim to her attendance on unknown sufferers. On the 28th of January, 1814, aged fifty-two, this noble Fichte capital.

There are few characters which impire more admiration than that of Fichte; we must all admire that cold, colossal, adamusting spirit standing erect and clear, like a Cato Malor among degenerate men; fit to have been the teacher of the Stoo, and to have discoursed of beauty and virtue in the groves of Academe ! So robust an intellect, a soul so calm, so lofty, mussive, and immovable has not mingled in philosophical discussion since the time of Luther. For the man rises before us amid contradiction and debate like a granite mountain amid clouds and winds. Ridicale of the best that could be commanded has been already tried against him; but it could not avail. What was the wit of a thousand wits to him? The err of a thousand choughs assaulting that old cliff of granite; seen from the summit, these, as they winged the midway air, showed scarce so gross as beetles, and their cry was seldom even audible. Firkte's opinious may be true or false; but his character as a thinker can be slightly valued only by those who know it ill; and as a man approved by action and suffering, in his life and in his scath, he ranks with a class of men who were common only in better ages than ours."

§ 11. FIGHTE'S HISTORICAL POSITION.

Kant's Criticism, although really leaving scepticism in possession of the field, was nevertheless believed to have indicated a new domain, in which a refuge might be found. The thought seen suggested itself that on this domain an indestructible temple might be erected. Kant had driven the piles deep down into the earth—a secure foundation was made; but Kant had declined building.

Jacobi, for one, saw in the principles of 'criticism' a path on which he could travel. He maintained, that just as Sense was,

576 VICETE

according to Kant, a familty whereby we perceived material things, so also was Reason a sense, a faculty, whereby we prevent the supersensed.

It was indeed soon evident that men would not content themselves with the mere negation to which Kant had reduced our knowledge of things par as. It was the positive part of his system they accepted and endeavoured to extend. This attempt forms the matter of all the subsequent history of German Philosophy till Hegel. We will briefly state the nature of the discensions which the result of Kant's system had rendered imperative.

Kant had postulated the existence of an object as the accounty correlate to a subject. Knowledge was look objective and subjective; but intermed as it was thus inseparably twofold it could never penetrate the essence of things—it could never know the object—at could only know phenomena. Hence the problem was:—

What is the relation of object and subject?

To solve this, it was necessary to penetrate the resence of things, to apprehend nomices. All the efforts of men were therefore to be directed towards this absolute science. The ground of all certitude being in the a priori ideas, an attempt was made to construct a priori the whole system of human knowledge.

The Ego was the necessary baris of the new velifica: Conscious next, as alone certain, was proclaimed the graund upon which abustate science must rest.

Fichte's position is here clearly marked out. His sole object was to construct a science out of consciousness, and thereon to found a system of normly.

Let us at the outset request the reader to give an leed to any of the sittleisms which he may hear, or which may suggest themselves to him on a hasty' consideration of Fichte's opinions. That the opinions are not those of redinary thinkers, we admit; that they are repugnant to all 'recument sense,' we must also mimit; that they are false, we believe: but we also believe them to have been laborious products of an earnest mind, the consequences of admitted premises, drawn with singular andarity and subtlety, and no more exprises of ingenious speculation—no paradoxes of an acute has trilling mind.

It was within him that he found a hump to light him on his path, Deep in the recesses of his unit, beneath all understanding, superfitz to all logical knowledge, there by a familty by which truth, obsolute truth, might be known.

"I have found the organ," he says in his Bestimmany dex Men. arten, be which to apprehend all reality. It is not the understuding; for all knowledge supposes some higher knowledge on which it rests, and of this ascent there is no cod. It is Fasth, sofuntarily reposing on views naturally presenting themselves to us. because through these views alone we can fulfil our destiny, which was our knowledge, and pronounces that " it is good," and mises it to certainty and conviction. It is no knowledge, but a resolution of the will to admit this knowledge. This is no mere verbal disfiretion, but a true and deep one, perguant with the most importast consequences. Let me-for ever hold first by it. All me conviction is but faith, and it proceeds from the will and not from the understanding; from the will also, and not from the understanding. must all the true culture proceed. Let the first ordy be firmly directed towards the Good, the latter will of itself apprehend the True. Should the latter be exercised and developed while the forner remains neglected, nothing can come of it but a facility in vain and endless sophistical subtleties relining away into the absolutely weid mane. I know that every seeming truth, born of thought alme, and not ultimately resting on faith, is false and sparious; for knowledge, purely and simply such, when carried to its atmost consequences, leads to the conviction that we can know nothing! Such knowledge never finds anything in the conclusions, which it has not previously placed in the premisses by faith; and even then its conclusions are not always correct. . . . Every human creature born into the world has unconsecondly seited on the reality which raists for him slow through this intritive faith. If in mere knowlolge-in more perception and reflection-we can discover no ground for regarding our mental presentations as more than more pictures, why do we all nevertheless regard them as more, and mapiny for them a basis, a redstrates independent of all modifications? If we all possess the enpacity and the instinct to go beyond this natural view of things, why do so few of us follow this instinct, or exercise this capacity? - nay, why do we even resist with a sort of bitterness when we are urged towards this path? What holds us Imprisoned in these natural boundaries? Not inferences of our reason; for there are none which could do this. It is our deep interest in reality that does this-in the good that we are to penduce-in the common and the sensmons that we are to enjoy. From this interest can no one who lives detach himself, and just us little from the faith which forces itself upon him simultaneously with his

578 FIGHTS

existence. We are all been in forth, and he who is blind follows blindly the agressible attraction. He who sees follows by sight, and believes became he will believe."

Here the limit, set by Kant, is overleaped: a knowledge of realities is officered. But it is not enough to officer such a knowledge; we must prove it. To prove this is the missom of Philosophy.

Factor, who thought benself a frac Kantist, although Kant very distinctly and publicly repullated how, declared that the materials for a science had been discovered by Kant; nothing more was needed than a systematic co-ordination of these materials; and this task he undertook in his famous Distrine of Science (Winstantofoliological). In this he endeavoured to construct a priori all knowledge.

§ III. Basis or FOMER's SYSTEM.

We are supposed to preceive external objects through the ideas which these objects excite in us. But this assumption is not warranted by the facts of consciousness. What is the fundamental fact? It is that I have in my mind a certain idea. This, and this only, is primitively given. When we leave this fact in quest of an explanation, we are forced to admit either that this idea is spontaneously crulyed by me; or clse some ast-we—something different from myself—has excited it in me. Idealism or Dualism? choose between them.

Kant, mwilling to embrace idealism, and anable to courrise her the Ego spontaneously evolved within itself ideas of that which it regarded as different from itself, postulated the existence of a Non-Ego, but declared that we have nothing of it. In this he followed Locke, and the majority of philosophers.

Truly, said Fielde, we know nothing of it; we can only know that which passes within conselves. Only so much as we are essentions of, can we know; but in consciousness there is no object given, there is only an idea given. Are we forced by the very laws of our reason to suppose that there is Non-Ego existing?—are we forced to assume that these ideas are images of something out of us and independent of us? You what does this dilemma bring us? Simply to this that the very assumption, here called a necessary consequence of our mental constitution—this Figure Ego, which must be postulated, is,

^{*} We adopt the translation of Mer. Percy Sinnett: Lastination of Mea, London, 1816.

after all, nothing but a postulate of our reason; is therefore a proshot of the Ego. It is the Ego which thus eventes the secretly for a Non-Ego; it is the Ego which thus, autorizing to the necessity, cresers the Non-Ego manted. Ideas, and nothing but ideas, are given in the primitive fact of consciousness. These are the products of the neticity of the Ego; and not, as is so commonly ascreted, the proflaces of the passicity of the Ego. The soul is no passive mirror redecting images. It is an active principle creating them. The scal is to highest recaptivity. Were it not brimming over with life and activity, preception would be impossible. One stem: does not provise another. A mould does not perceive the liquid that is powed into it.

Consciousness is in its very essence an activity. Well then, if in its activity it produces images, and if by the laws of its nature it is forced to assume that these images have some substrations, what is this assumption but assister form of the soul's artivity? If the Ego is conscious of its changes, and yet is forced to attribute these changes to some external cause, what is this very act of assuming as external cause but the pure act of the Ego?—another change in the causelonness?

You admit that we cannot know Subdance; all our knowledge is limited to accidents—to phenomena. But, you say, you are forced to nouse a Substance as the basis of these accidents—a nonmeron as that whereby phenomena are possible; and yet you cannot know this nonmeron. Fighte masters: If you cannot know it, your astemption, as the avere product of your reason, is nothing more not less thus another form of the activity of the Equ. It is you who assume; and you assume what you call Substance. Substance is teching but the synthesis of occidents. And it is a mental synthesis.

Thus Fichte founded Idealism upon the basis of consciousness, which was the admitted basis of all certified; and he not only founded idealism, but reduced the Ego to an activity, and all fourloge to an act.

The activity of the Ego is of course an assumption, but it is the only assumption necessary for the construction of a science. That torce admitted, the existence of the Non-Ego, as a product of the Ego, follows as a necessary consequence.

Every one will admit that A = A; or that A is A. This is an axion which is known intuitively, and has no need of proof. It is the proposition of absolute significally (Satz der Idealität). It is ab580 FIGHTS.

solutely true. In admitting this to be absolutely true, we ascribe to the mind a faculty of knowing absolute truth.

But in saying A equals A, we do not affern the existence of A₁ we only affern that if A exist, then it must equal A. And the axion trackes us not that A exists; but there is a necessary relation between a certain if and then; and this necessary relation we will call X. But this relation, this X, is only in the Ego, comes only from the Ego. It is the Ego that judges in the preceding axiom that A = A; and it judges by means of X.

To reduce this to impunge a little less scholastic, we may say that, in every judgment which the mind makes, the act of judging is an act of the Ego.

But as the X is wholly in the Ego, so therefore is A in the Ego, and is posited by the Ego. And by this we see that there is recething in the Ego which is for ever one sail the same, and that is the X. Hence the formula, 'I am I: Ego — Ego.'

We reme here to the Copito, ergo saw, of Descartes, as the basis of all certifieds. The Ego posits itself, and is by means of this very self-positing. When I say 'I am,' I affirm, in consciousness, my existence; and this affirmation of my consciousness is the combition of my existence. The Ego is therefore at one and the same time both the activity and the product of activity; precisely as thought is both the thinking activity, and the product thought.

We will, for the present, spare the reader any further infliction of such logical abstractions. He will catch in the foregoing a gluopse of Fichte's method, and be in some way able to estimate the strength of the basis on which idealism reposes.

The great point Fichte has endoarented to establish is the identity of living and shought—of existence and consciousness—of object and sobject. And he establishes this by means of the Ego considered as essentially an activity.

Hence the conclusion drawn in the practical part of his philosophy that the true destination of man is not thought, but action, which is thought realized. 'I am free,' he mays. That is the revolution of consciousness. 'I am free; and it is not merely my action, but the free determination of my will to obey the soice of consciousnes, that decides all my worth. More brightly does the revoluting world now rise before me; and the fundamental laws of its order are more clearly revealed to my mental sight. My will whose, lying had in the obscure depths of my soul, is the first link in a claim of consequences stretching through the invisible realms of spirit, as in this terrestrial world the action itself, a certain movement commuwested to matter, is the first link in a material clinin of cause and effect, encircling the whole system. The will is the efficient came. the living principle of the world of spirit, as motion is of the world of sense. I stand between two worlds, the one visible, in which the set alone avails, and the intention matters not at all; the other inrighle and incomprehensible, acted on only by the will. In both these worlds I am an effective force. The Divine life, as alone the force mind can conceive it, is self-forming, self-representing will, riched, to the mortal eye, with multitudinous sensoons forms, flowing through me and through the whole immeasurable universe, here streaming through my veins and neuseles,-there, penging its alumiance into the tree, the flower, the grass. The dead, heavy mass of mort matter, which did but fill up nature, has disappeared, and, in its stead, there rushes by the bright, everlasting flood of life. and power, from its Infinite Source.

"The Eternal Will is the Creator of the world, as he is the Creator of the finite season. Those who will insist that the world must have been created out of a muss of inert matter, which must always remain meet and lifeless, like a vessel made by human limits, know neither the world nor Him. The Infinite Reason alone exists in himself—the finite in him; in our mosts alone has be created a world, or at least that by and through which it becomes unfolded to us. In his light we behald the light, and all that it reveals. Great, living Will? whom no worls can muse, and no conception embrace! well may I lift my thoughts to thee, for I can think only in thes. In ther, the Incomprehensible, does my own existence, and that of the world, become comprehensible to use, all the problems of being are solved, and the most perfect larmony reigns. I will my face before there and lay my farger on my lips."

§ IV. FIGURE'S IDEALISM.

The ground-principle of Fielde's idealism having been given, we have now to see how he avoids the natural objections which rise against such a decreise. But first let us notice how this deification of personality was at once the most natural product of such a mind as l'ichte's, and the best adapted to the spirit of the age which produced it. His doctrine was an inspiration of that ardent and exalted spirit which stirred the heart of Germany, and made

583 FIGHTS.

the campaign of 1813 an epoch in history. Germany then, as now, was most deficient in energetic will. It had service, and these armies were headed by experienced generals. But among them there was scarcely another beyond the impetuous Blincher, who had steadlast will. They were beaten and braten. At length they were roused. A series of insults had roused thou. They were to light for fatherland; and in their ranks was Fichite, who by deed as well as doctring sought to convince them that in Will by man's divinity.

The question being, What is the relation of Object and Subject?

and Fichti's solution being Object and Subject are identical, it
followed from his position that innersuch as an Object and a Subject—a Non-Ego and an Ego—were given in knowledge, and the
distinction between them by all men supposed to be real, the origin
of this distinction must arise in one of two ways: either the Ego
must posit the Non-Ego, milfully and consciously (in which case
numbind would never suppose the distinction to be a real distinction); or obserbe Ego must cause the Non-Ego to be, and must do
so necessarily and unconsciously.

How does Fighte solve the problem? Be assumes that the existence of the very Ego itself is determined by the Non-Ego; and in this way. To be, and to be conscious, are the same. The existence of the Ego depends upon its consciousness. But to be conscious of Self is at the same time to be consciousness. But to be consciousness. Self and Not-Self are given in the same act of consciousness. But how is it that we attribute reality to Not-Self? Just us we attribute reality to Self, namely, by an act of Consciousness. Not-Self is given in Consciousness as a reality, and therefore we cannot suppose it to be a plainton.

We may pause here to remark how all the withcome against Idealem fall to the ground. The wits assume that when it is said the World is produced by the Ego, this World must be falld as a phantom. Now nobody ever believed that external objects had no reality; the only possible doubt is as to whether they have any reality independent of mind.

In consciousness we have a twofold fact, musely, the fact of Self,

^{*} The German word leatinesse, which we are found to translate 'to determine,' is of immense use to the metaphysicians, we would glidly have substituted some other equivalent, could not have found one to represent the terming factor. To determine, is philosophy, does not mean (as in ordinary longuage), to resolve, but to reader deflaric. Chara, when determined, is the strated world.

and the fact of Not-Self, indissolubly given in our. We conclude therefore that Consciousness-that the Pgo-is partly self-determised, and partly determined by not-self. Let us suppose the entire reality of the Ego (that is, in its identity of Subject and Object) represented by the number test. The Ego, conscious of the of its parts-or, to speak with Pichte-southing tire, does by that very act posit five parts asystirely in itself. But how is it that the Ego can posit a negation in itself? It does so by the very art of Consciousness; in the act of separating free from ten, the five remining are left passive. The negation is therefore the pasevery of the Ego. This seems to lead to the contradiction that the Ero, which was defined as an Activity, is at the same time serve and passive. The solution of this difficulty is that it is tenvity which determines Passivity, and reciprocally. Let us supgoe the almolute reality as a Sphere; this is catirely in the Ego, and has a certain quantity. Every quantity less than this totality, will, of necessity, be negation, possicity. In order that a less quantity should be compared with the totality and so opposed to II, it is pecessary there should be some relation between them; and this is in the idea of divisibility. In the absolute totality, as such, there are no parts; but this totality may be compared with parts and distinguished from it. Passicity is therefore a determinate quarter of Activity, a quantity concared with the totality. Inregard to the Ego as absolute, the Ego as limited is passive; in the relation of Ego as limited to the Non-Ego, the Ego is netive and the Non-Ego possive. And thus are activity and possisity reciprocally determined.

The result of this and much more reasoning, is the hypothesis that when mankind attribute to objects a real existence they are correct; but they are incurrent in supposing that the Object is independent of the Subject; it is identical with the Subject. The torainon sense belief is therefore correct enough. It is when we would rise above this belief, and endeavour to philosophise, that we fall into error. All the philosophers have errod, not in assuming the reality of objects, but in assuming the reality of fees distinct, disparate existences, Matter and Mind; whereas we have seen that there is only one existence, having the twofold aspect of Object and Subject.

Nor is the distinction unimportant. If Dualism he accepted, we have no refinge from Scepticism. If we are to believe that Diage as sed exist—that Matter exists independently of Mind, exists

584 FICHTE.

per se—then are we deemed to admit only a knowledge of phenomena as possible. The things in themselves we can never know; we can only know their effects upon us. Our knowledge is relative, and never can embrace the absolute truth.

But if Idealian be accepted, the onlinary belief of men is not only respected but confirmed; for this belief is that we do know things in themselves, and that the things we know do exist. The Dualist forces you to admit that you count know things in thouselves; and that your belief in their existence is merely the postulate of your Beason, and is not issuedantely given in the facts of Consciousness. The Idealiat, on the contrary, given you un investable knowledge of things in themselves, consequently opens to you the domain of absolute Truth. He only differs from you in mying that these things, which you innocliately know, are part and parcel of yourself; and it is because you and they are indissolubly united, that immediate knowledge is possible.

'But,' says Realism, 'I know that objects are altogether independent of see. I did not create them. I found them there, out of me. The proof of this is that if, after looking at a tree, I turn away, or shot my eyes, the image of the tree is minibilated, but the tree itself remains.'

'No,' answers Idealism, 'the tree itself thes not remain; for the tree is but a pleasomenus, or collection of phenomenus;—the tree is a Perception, and all perceptions are subjective. You suppose that every one must admit that our perceptions are different from these objects. But are they different? that is precisely the question at issue; and you assume it. Let us be cautions. What is an object—a tree for instance? Tell me, what does your Consciousness inform you of? Let use hear the face, the whole fact, and no safer-ever from the fact. Is not the safest (tree) one and the same us your perception? Does not your Consciousness distinctly tell you that the Form, Colour, Solidity, and Smell of the Tree are in you—are affections of your Subject?"

"I admit that," replies Bealism; 'but although these are is see, they are caused by something out of use. Consciousness tells are that very plainty."

'Does it so? I tell you that Conscionances has no such power. It can tell you of its own changes; it cannot transcend itself to tell you anything about that which causes its changes.'

But I am irresistiffy compelled to believe," says Realism, "that

there are things which exist out of me; and this belief, because irresistible, is true."

'Stop! you run on too fast,' replies Idealism; 'your belief is not what you describe it. You are not irresistibly compelled to believe that things exist, which said things lie undersceld all their appearances, and must ever remain unknown. This is no instinctive belief; it is a philosophic inference. Your belief simply is, that certain things, coloured, odorous, extended, sayid, and solid, siist; and so they do. But you infer that they exist sat of you?

Each inference. Have you not admitted that colour, odour, taste, excusion, etc., are but modifications of your sentient being; and if they exist is you, how can they exist sat of you? They do not a they seem to do so by a law of the mind which gives objectivity to our sensations."

'Try your atmost to concrive an object as anything more than a synthesis of perceptions. You cannot, You may infer indeed that a asbatration for all phenomena exists, although unknown, unknowable. But on what is your inference grounded? On this impossibility of conceiving the existence of qualities-extension, oskur, etc.-apart from some substance of which they are qualities, This impossibility is a figment. The qualities have no need of an objective substratum, because they have a subjective substratum; they are the modifications of a sensitive subject; and the synthesis of these modifications is the only substratum of which they stand in need. This may be proved in another way. The qualities of objects, it is universally admitted, are but modifications of the subjust: these qualities are ettributed to external objects; ther are dependent upon the subject for their existence; and yet, to account for their existence, it is asserted that some waknown raternal something must exist as a substance in which they must inhere. Now it is apparent that inasmuch as these qualities are subjective and dependent upon the subject for their existence, there can be no necessity for an object in which they must inhere.' Thus may Idealism defend itself against Realism.

We have made ourselves the advocates of Fichte's principles, but the reader will not mistake us for disciples of Fiehte. In the exposition of his system we have, for obvious reasons, generally

^{*} The difference between Blerkeley and Fichte is apparent here. The former said than the objects did exist independent of the Equ. but did not suit independent of the toporous Mind. Fichte's Idealism was Equipm; Berkeley's was a theological Idealism.

586 FIGHTS

avoided his own manner, which is too abstract to be followed without difficulty, and we have endeavoured to state his ideas in our own way.

To rabibit Picker's Idealism is, strictly speaking, all that our plan imposes on us; but although his philosophical doctrines are all founded upon it, and although it was the doctrine which usale as speech in German Philosophy, consequently the doctrine which entitles him to a place in this History, nevertheless we should be doing him injustice and midualing our readers if we did not give score glimpse of his moral system. The Idealism, as Idealism, seems little better than an ingenious paradox: only when we see it applied can we regard it as serious."

& V. APPLICATION OF FIGURE'S IDEALISM.

The Ego is coentially as Activity; consequently free. But this free activity would lose itself in infinity, and would remain without conscirusness—in fact, without existence—find it not encounter some resistance. In the effort to ranguish this resistance, it exerts its will, becomes conscious of something not itself, and thereby becomes conscious of itself. But resistance limits freedom, and as an Activity the Ego is rescutially free—it is irresistably impelled to enjoy perfect freedom. This expansive force, which impels the Ego to realize itself by complete development, and thereby assimilating the Non-Ego—this force, in as far as it is not realized, in the disc of num's existence—it is his duty.

Here a difference from the ordinary schools of morality begins to show itself. Duty is not a moral obligation which we are free to acknowledge or reject; it is a pulse beating in the very bean of man—a power inseparable from his constitution; and according to its fulfilment is the man complete.

[&]quot;These who are remove to see what he himself makes of his system are referred to his Wissenskafteleker (of which a French translating by M. Paul Gernblet exists, under the title of Destries de la Sevenet, or, as a more pupular exposition, to his Buttismany for Mesonius, a French translation of which has been published by M. Barshou de Penhoen, under the title Destination de l'Monne, which, from the character and learning of the translation, is, we have no doubt, an excellent remion. An Buglish translation has also been made by Mrs. Percy Stanett, which can be recommended. Firstism work, The Nature of the Scholar, has also recently appeared, by Mr. W. Smith, who has also translated the Characteristics of the Percent Apr.

The world does not exist because we imagine it, but because we believe it. Let all reality be swept away by scepticism—we are not affected. Must is impelled by his very nature to realize his exists use by his acts. Our destination is not thought, but action. Must is not born to broad over his thoughts, but to munifiest them—to give them existence. There is a moral world within; our mission is to transport it without. By this we create the world. For what is the condition of existence?—what determines Thought to be? Simply that it should realize itself as an object. The Ego or analyte Subject does not exist; it has only a potentiality of existence. To exist, it must realize itself and become Subject-Object.

Mark the consequence:—Knowing that we carry within as the social world, and that upon ourselves alone depends the attainment of so sublime an object as the manifestation of this world, it is to ourselves alone that we must direct our attention. This realization of the world, what is it but the complete development of ourselves? If we would be, therefore—if we would enjoy the realities of existence, we must develop ourselves in the attempt to increasably senior the beautiful, the useful, and the good. Man is commanded to be mural by the imperious necessity of his own nature. To be retrous is not to obey some external law, but to fulfil an internal law this obedience is not starrey, but firedom; it is not sacrificing one particle of freedom to any other power, but wholly and truly multing the power within us of being free.

Life is a combat. The free spirit of man, insenuch as it is finite, a limited, insperfect; but it increasantly struggles to subjugate that which appears in—it tends increasantly towards infinity. Defented in his hopes, he is sometimes discoveraged, but this lasts not long. There is a well-spring of energy for ever vital in the heart of man; an ideal is for ever shiring before him, and that he must attain.

Man knows himself to be free; knows also that his fellow-men are free; and therefore the duty of each is to treat the others as beings who have the same aim as himself. Individual liberty in therefore the principle of all government; from it Fachte deduces his political system.

And what says Fields respecting God? He was, as we know, accused of atheries. Let us bear his real opinious. In his answer to that charge we have an abstrace, but at the same time positive, exposition of his views.* God createst the world out of an inert

^{*} Grentsliche Feranteserimpurkriften gegen die Arbbem des Abbinnen.

588 FICHTE

mass of matter; and from the evidence of design in this created world we infer an intelligent designer. This is the common view; but Fichte could not accept it. In the first place, what we call the World is but the incurration of our Duty (numer Well int also revaisablehle Material numerar Pflicht). It is the objective existence of the Ego: we are, so to speak, the creature of it. Such a statement looks very like atheism, especially when Fichte's system is not clearly apprehended; it is however, at the worst, only Accession.

Nor could Fichte accept the evidence of Design, because Design is a mere conclusion of the understanding, applicable only to finite, transient things, wholly implicable to the infinite: Design stuff is

but a selijective notion."

'God,' says Fichte, 'unset be believed in, not inferred. Faith is
the ground of all conviction, scientific or moral. Why do you believe in the existence of the world? It is nothing more than the
incurvation of that which you carry within you, yet you believe in
it. In the same way God exists in your Consciousness, and you
believe in him. He is the Moral Order (maratische Ordensy) of
the world: as such we can know him, and only as such. For if we
attempt to attribute to him Intelligence or Personality, we at more
necessarily full into anthropomorphism. God is infinite: therefore
beyond the reach of our science, which can only embrace the finite,
but not beyond our faith.'t

By our efforts to fulfil our Duty, and thus to realize the Good and Beautiful, we are tending towards God, we live in some measure the life of God. True religion is therefore the realization of universal reason. If we were all perfectly free, we should be one; for there is but one Liberty. If we had all the some convictions, the law of each would be the law of all, since all would have but one Will. To this we aspire; to this Humanity is tending:

The germ of mysticism which lies in this dectrine was fully dereloped by some of Fichte's successors, although he himself had particularly guarded against such an interpretation, and distinguishes himself from the mystics.

Let us now pass to Fighte's Philosophy of History.

The historian only accomplishes half of the required task. He mirrates the events of an epoch, in their order of occurrence, and in the form of their occurrence; but he cannot be assured that he has not omitted some of these events, or that he has given them their due position and significance. The philosopher must complete this incomplete method. He must form some idea of the epoch an Idea à priori, independent of experience. He must then exhibit this Idea always dominant throughout the epoch—and manifesting itself in all the multiplicity of facts, which are but its incarnation. What is the world but an incarnation of the Ego? What is an epoch but an incarnation of an Idea?

Every epoch has therefore its pre-existent Idea. And this Idea will be determined by the Ideas of the epochs which have preceded it; and will determine those which succeed it. Hence we conclude that the evolutions of Ideas—or the History of the World—is non-multished on a certain plan. The philosopher must conceive this plan in its totality, that he may from it deduce the Ideas of the principal epochs in the history of Humanity, not only as past, but as future.

The question first to be settled is this: What is the ground-plan of the world? or, in other words, according to Fighte, What is the fundamental Idea which Hemanity has to realize?

The answer is: The Idea of Duty. This, in its controls expression, is: To fix the relations of man to man in such weller that the perfect liberty of each be compatible with the liberty of the whole.

History may thus be divided into two principal epochs. The one, in which man has not established the social relations on the basis of musen. The other, in which he has established them, and knows that he has done so.

That Humanity exists but for the successive and constant realisation of the dictates of reason is easily proved. But numeriness Humanity has knowledge of what it performs, and why it performs it, sometimes it obeys but a bind impulse. In this second ease, that is to say, in the first epochs of the transferrial existence of Humanity, Reason, although not manifesting itself distinctly, consciously, nevertheless exists. It manifests itself as an instinct, and appears under the form of a natural law, it considers itself in the intelligence only as a vague and obscure sentiment. Reason, on the contrary, no sounce manifests itself as Reason, than it is gifted with consciousness of itself and its acts. This constitutes the second epoch.

But Humanity does not pass at once from the first to the second epoch. At first Benson only massiests itself in a few men, the Great Men of their age, who thereby nequire authority. They are 590 TICHTE.

the instructors of their age; their mission is to elevate the mass up to themselves. Thus Instinct diminishes, and Reason supervenes. Science appears. Morality becomes a science. The relations of man to man become more and more fixed in accordance with the dictates of reason.

The entire life of Humanity has five periods. I. The domination of Instinct over Reason: this is the primitive age. II. The general Instinct gives place to an external dominant Authority: this is the age of sloctrines unable to conviner, and employing force to produce a blind belief, claiming unlimited obedience; this is the period in which Evil arises. III. The Authority, dominant in the preceding reports, but constantly attacked by Reason, becomes weak and massering: this is the epoch of scepticism and locationsmuss. IV, Reason becomes conscious of steelf; truth unikes itself known; the science of Reason developes itself; this is the beginning of that perfection which Humanity is destined to attain. V. The science of Reason is applied; Humanity fashious itself after the ideal standard of Reason: this is the epoch of Art, the last term in the history of our species.

This brief outline of Fighte's system will be sufficient to assign him his place in the long line of European thinkers who have worked, with such perseverance, the glittering mine of Metaphysics; and sufficient also, we trust, not only to stimulate the suriosity of such readers whose studies lie in that direction, but also to furnish them with a general view capable of readering the details intelligible.

CHAPTER IL

SCHELLING.

§ 1. Life of Schreening.

PREDERICK WILLIAM JOSEPH SCHELLING was born in Leonberg, in Wistensberg, 27th of January, 1775. At the University in Tilbingen he first knew Hegel, and their friendship was enduring and productive. At Leipnig he studied Medicine and Philosephy; in the latter he became the pupil of Fichte. He afterwards filled Fichte's secant clair at Jenn, where he lectured with immense success. In 1807 he was made a number of the Munich Academy of Sciences. And in Bayaria, honoured, rewarded, and emobiled, he remained tell 1842, when the King of Prussia sodneed him to Berlin; and there, in the chair once held by Hegel, he opened a series of lectures, in which he was to give the fruit of a life's moditation.

His appearance at Berlin was the signal for violent polemics. The Hopelians were all up in arms. Paraphlets, full of personalities and dialectics, were launched against Schelling, apparently without much effect. His foes at length grew weary of screening; and he continued quietly to lecture. In 1815 the writer of this work had the gratification not only of hearing him lecture on Mythology to large andiences, but also of hearing him in the expansionees of private concernation pour forth his stores of varied knowledge. His intellectual vigour was such, that although screenty summers had whitened his hair, he seemed to have still a long lime of life; and indeed he continued nine years longer to impire the respect of all who knew him. He died on the 20th August, 1851.

è II. Sempling's Decraises.

Schelling is often styled the German Plato. In such parallels there is always some truth amalist much error. Schelling's works unquestionably exhibit great power of vivid imagination conjoined with sabile dialectics; if on this ground he is to be styled a Plato, then are there hundreds to share that title with him. His doctrines have little resemblance to those of his supposed prototyps. Curiously enough, his head was morvellously like that of Socrates; not so ugly, but still very like it in general character.

Schelling may be regarded as having been the systemation of a trudency, always somifesting itself, but then in full vigour in Germany—the tendency towards Pautheism. This tendency is not merely the offspring of Mysticism. It may be recognized in the clear Goethe, no less than in the mystical Novalis. In some way or other, Pautheism seems the natural issue of almost every Philosophy of Religion, when rigurously carried out, but Germany, above all European countries, has, both in poetry and speculation, the most constantly reproduced it. Her poets, her artists, her unscious, and her thinkers, have been roore or less pantheists. Schelling's attempt therefore to give Pantheism a scientific basis could not but meet with hearty approbation.

We may here once more notice the similarity, in historical position, of the modern German speculations to these of the Alexandrian Schools. In both the incapacity of Reason to solve the perblems of Philosophy is openly proclaimed; in both some higher faculty is called in to solve them. Plotious called this faculty Ecstory. Schelling called it the Intellectual Intuition. The Ecotory was not supposed to be a faculty possessed by all men, and at all times; it was only possessed by the few, and by them but sometimes. The Intellectual Intuition was not supposed to be a faculty common to all men; on the contrary, it was held as the endominant only of a few of the privileged; it was the faculty for philosophiring. Schelling expresses his dischait for those who talk about not comprehending the highest truths of Philosophy. "Really," Inexclaims, 'one sees not wherefore Philosophy should pay may attention whatever to Incapacity. It is better rather that we should isolate Philosophy from all the ordinary routes, and keep it so spparasted from ordinary knowledge that some of these routes abould lead to it. Philosophy commences where redinary knowledge termustes." The highest truths of science cannot be proved, they must be apprehended, for those who cannot apprehend them there is nothing but pity; argument is useless.

After this, were we to rail Schelling the German Plotinus, we should perhaps be scarer the troth than in calling him the German Plato. But it was for the sake of no such idle parallel that we

^{*} New Zeitschrift für Spetalative Physik, ii. 21.

perposed the fundamental positions of each. Our object was to 'print a moral,' and to show how the same forms of error re-appear is listery, and how the labours of so many centuries have not advanced the human mind in this direction one single step.

The first point to be established in the nature of Schelling's impresent upon Pichte: the relation in which the two doctrines and to each other.

Pichte's Idealism was purely subjective Idealism. The Object Ind indeed reality, but was solely dependent upon the Subject. Endoasour as we might, we could never separate the Object from the Subject, we could never conceive a possible mode of existence without being forced to idealify with it a Subject. Indeed the very emerption itself is but an act of the Subject. Admitting that we are forced by the laws of our mental constitution to postulate an unknown something, a Nonmenton, as the substance in which all phenomena inhere, what, after all, is this postulate? It is an act of the Mind; it is wholly subjective; the accessory for the postulate is a mental necessity. The Non-Ego therefore is the product of the Ego.

There is subtle reasoning in the above; may more, it contains a principle which is irrefutable: the principle of the identity of Object and Subject in knowledge. This Schelling adopted. Neverthiless, in spite of such an admission, the nullity of the external world was too sinkent and repulsive a conclusion to be long maintained; and it was necessary to see if the principle of identity might not be preserved, without forcing such a conclusion.

The existence of the objective world is as family believed in as the mistence of the subjective: they are, indeed, both given in the same set. We cannot be conscious of our own existence without at the same time inseparably connecting it with some other existence from which we distinguished ourselves. So in like manner we cannot be aware of the existence of anything out of ourselves without at the same time inseparably connecting with it a consciousness of surelyes. Hence we conclude that both exist; not indeed squarably, not independently of each other, but identified in some higher power. Fields said that the Non-Ego was created by the Ego.

^{*} This is the stronghold of Idealism, and we consider it imprognable, so long as men reason on the singled meanupties, that whatever is true in luminable bedge to equally true (i.e. actually as co-collected) in feet, that as things appear to us on they are pre-se. And yet without this assumption Philosophy is impossible.

2. q.

Schelling said that the two were equally real, and that both were identified in the Absolute.

Knowledge must be knowledge of something. Hence Knowledge implies the correlate of Being. Knowledge without an Object known, is but an empty form. But Knowledge and Being are correlates; they are not separable; they are identified. It is as impossible to conceive an Object known without a Subject knowing, as it is to conceive a Subject knowing without an Object known.

Nature is Spirit visible; Spirit is invisible Nature; the absolute Ideal is at the same time the absolute Real.

Hence Philosophy has two primary problems to solve. In the Transcrutestate Philosophy the problem is to construct Nature from Intelligence—the Object from the Subject. In the Philosophy of Nature—the Philosophy of Nature—the Subject from the Object.† And how are no to construct one firso the other? Fichte has taught us to do so by the principle of the identity of Subject and Object, whereby the productivity and the product are in constant opposition, yet always one. The productivity (Thirligheir) is the activity in act; it is the force which desclopes itself into all things. The product is the activity arrested and solidified into a fact; but it is always ready to pass again into activity. And thus the world is but a balancing of contending powers within the sphere of the Absolute.

In what, then, does Schelling differ from Fichte, since both ascert that the product (Object) is but the arrested activity of the Ego? In this: the Ego in Fichte's system is a finite Ego—it is the human soul. The Ego in Schelling's system is the Absolute—the Infinite —the All which Spinom called Substance; and this Absolute traniferts itself in two forms: in the form of the Ego and in the form of the Non-Ego—as Nature and as Minch.

The Ego produces the Non-Ego, but not by its own force, not cut of its own mature; it is the universal Nature which works within us and which produces from out of us; it is universal Nature which here in us is conscious of itself. The souls of men are but the insumerable individual eyes with which the Infinite World-Spirit beholds himself.

^{*} Our resolves will recognize here a farmante saying of Calenday, many of whose resource, new become famous, are almost systems from Scheding and the two Schlogels.

^{*} System des Transcendentalen Mosliman, p. 7.

What is the Ego? It is one and the same with the art which unders it an Object to itself. When I say 'myself'—when I form a conception of my Ego, what is that but the Ego making itself an Object? Consciousness therefore may be defined the objectivity of the Ego. Very well; now apply this to the Absolute. He, too, must be conscious of himself, and for that he must realize himself objectively. We can now understand Schelling when he says, 'The blist and unconscious products of Nature are nothing but memorinely attempts of Nature to make itself an Object (sick selful rerefectives); the so-called dead Nature is but an unripe Intelligence. The same of its efforts—that is, for Nature completely to objective itself—is attained through the highest and ultimate degree of reflexion in Man—or what we call Benson. Here Nature returns too itself, and reveals its identity with that which in us is known as the Object and Subject.'

This function of Remon is classifier more distinctly described as the total sudifference-point of the subjective and objective. The Absolute he represents by the symbol of the magnet. Thus, as it is the same principle which divides itself in the magnet into the moth and south poles, the centre of which is the indifferencepoint, so in like manner does the Absolute divide itself into the Real and Ideal, and holds itself in this separation as absolute indifference.† And as in the magnet every point is itself a magnet, having a North pole, a South pole, and a point of indifference, so also in the Universe, the individual varieties are but varieties of the sternal One. Man is a microcosm.

Brason is the indifference-point. Whose rises to it, rises to the results of things (great scaleron afasich), which reality is precisely in the indifference of Object and Subject. The basis of Philosophy is therefore the basis of Reason; its knowledge is a knowledge of things as they are, i. e. so they are in Reason.?

The spirit of Plotians revives in these expressions. We have in them the whole ker-stone of the Alexandrian School. The Intellectual formation by which we are to embrace the Absolute, is, as before remarked, but another form of the Alexandrian Eestary. Schelling was well aware that the Absolute, the Infinite as such, excild not be known under the conditions of finity, cannot be known

^{*} System des Transcendentelles Ettalismus, p. L.

[†] Hence Scholling's philosophy is often styled the Indifference Philosophy.

² Zeitschrift für Spornletire Physik, vol. z. heft 2.

in personal consciousness. How, then, can it be known? By some higher faculty which discerns the identity of Object and Subject which perceives the Absolute as Absolute, where all difference is lost in indifference.

There are three divisions in Schelling's system: the philosophy of Nature, the transcendental philosophy, and the philosophy of the Absolute.

His speculations with respect to Nature have met with considerable appliance in Germany. Ingraious they certainly are, but visited in Method; incapable of verification. Those who are carious to see what he makes of Nature are referred to his Zeifsechrift file speculative Physik, and his Islam zu clare Philosophic der Natur. The following examples will serve to indicate the character of his speculations.*

Subject and Object being identical, the absolute Identity is the absolute totality usuned Universe. There can be no difference except a quantitative difference; and this is only conceivable with respect to individual existences. For the absolute Identity is quantitative indifference both of Object and Subject, and is only under this form. If we could behald all that is, and behold it in its totality, we should see a perfect quantitative equality. It is only in the scission of the Individual from the Infinite that quantitative difference takes place. This difference of Object and Subject is the ground of all finity; and, on the other hand, quantitative indifference of the two is Infinity.

That which determines any difference is a Power (Patenz), and the Absolute is the Identity of all Powers (after Patenzes). All matter is originally liquid; are sold is the power through which the Attractive and Expansive force, as the immanent ground of the reality of Matter, operates. Weight is the first Potenz. The second Patenz is Light—an inward intuition of Nature, as weight is the outward intuition. Identity with Light in Transparency. Heat does not pertain to the nature of Light, but is simply a madia existency of Light. Newton's speculations upon Light are treated with disdain, as a system built upon illogical conclusions, a system self-contradictory, and leading to infinite absurdities. Nevertheless this abourd system has led men to many discoveries; it is the

[&]quot;The moder must not complain if he do not understood what follows intelligibility is not the elementaristic of German speculation; and we are here only translating Schriffing's words, without undertaking to enlighten their darkness.

has of a gradually advancing science; while the views of Schelling lead to nothing except disputation. So with his explanation of Electricity; let us suppose it exact, and we must still acknowledge it to be usdown. It admits of no ventication; admits of no application. It is utterly sterile.

There are indeed general ideas in his Natur-philosophic, which not only approach the conceptions of positive science, but have given a powerful stimulus to many scientific intellects. The geperal law of polarity, for example, which he makes* the law of miversal nature, is seen illustrated in physics and chemistry; although the presumed relation between last and oxygen, which he makes the basis of all atomic changes, no chemist will nowadays accept. When, in the second part of this treatise, he theorizes on erganic life, the result is similar, namely some general ideas which seen luminous are enforced by particular ideas certainly falso. He maintains that vegetation and life are the products of chemical action: the first consisting in a continual deoxidation, the second in a continual oxidation; as soon as this chemical action ceases, death supervenes, for living beings exist only in the moment of becoming ? He only expresses the universally accepted idea of life when he makes it depend on the incessant disturbance and reestablishment of an equilibrium, or, as De Blainville defines it, 'a continual movement of decomposition and recomposition."

All the functions of Life are but the individualizations of one common principle; and all the series of living beings are but the individualizations of one common Life; this is the Wettseele, or make musels. The same idea had been expressed by Greeke, and has since been presented under various forms by Oken and many General naturalists. The idea of a dynamic progression in Nature, is also the fundamental idea in Heppel's philosophy.

Schelling, in his Jakobischer der Medicia, says that Science is only valuable in as far as it is speculative; and by speculation be means the contemplation of God as He exists. Reason, instruct as it affirms God, cannot affirm anything else, and muchilates itself at the same time as an individual existence, as anything out of God. Thought (das Deutes) is not my Thought; and Being is not my Being; for everything belongs to God or the Ail. There is no such thought as a Reason which are Anne; but only a Reason that has us. If nothing exists out of God, then must the know-

^{*} For the Walmords, p. 25 sq. + Hold, p. 181; 2 Hill, p. 284.

ledge of God be only the infinite knowledge which God has of himself in the eternal Self-affirmation. God is not the highest, but the only One. He is not to be viewed as the summit or the sud, but as the centre, as the All in All. Consequently there is no such thing as a being lifted up to the knowledge of God; but the knowledge is immediate recognition.

If we direct Schelling's speculations of their dialectical forms, we shall arrive at the following results:--

Infeation is one-sided. Beside the Subject there must exist an Object: the two are identical in a third, which is the Absolute. This Absolute is neither Ideal nor Real—neither Mind nor Nature—but both. This Absolute is God. He is the All in All; the eternal source of all existence. He readines himself under one form, as an objectivity; and under a second form as a subjectivity. He becomes conscious of himself in man, and this man, under the highest form of his existence, manifests Reusen, and by this Reusen God known himself. Such are the conclusions to which Schelling's philosophy leads us. And now, we ask, in what does this philosophy differ from Spinonism?

The Absolute, which Schrilling assumes as the indifference-point of Subject and Object, is but the wpower dyadie and primal Nothing, which forms the first Hypostasis of the Alexandrian Trimity. The Absolute, as the Identity of Subject and Object, being neither and yet both, is but the Substance of Spinoza, whose attributes are Extension and Thought.

With Spinoza also he agreed in giving only a phenomenal reality to the Object and Subject. With Spinoza he agreed in admitting but one existence—the Absolute.

But, although agreeing with Spinous in his fundamental postions, he differed with him in Method, and in the applications of those positions. In both differences the superiority, as it seems to me, is incontestably due to Spinous.

Spinora deduced his system very logically from one fundamental assumption, riz. that whatever was true of ideas was true of objects. This assumption itself was not altogether arbitrary. It was grounded upon the principle of certitude, which Descartes had brought forward as the only principle which was irrefragable. Whatever was frend to be distinct and a priori in Consciousness, was irresistibly true. Philosophy was therefore deductive; and Spinora deduced his system from the principles laid down by Descartes.

Schelling's Method was very different. Aware that human know-

ledge was necessarily finite, he could not accept Spinoza's Method, because that would have given him only a knowledge of the finite, the conditioned; and such knowledge, it was admitted, led to acepticism. He was forced to assume another faculty of knowing the trath, and this was the Intellectual Intuition. Beason which could know the Absolute was only possible by transcending Consciousness and sinking into the Absolute. As Knowledge and Bring were identical, to know the Infinite, we must be the Infinite, i.e. most lose our individuality in the universal.

Consciousness, then, which had for so long formed the basis of all Philosophy, was thrown over by Schelling, as incompetent to whe my of its problems. Consciousness was no ground of cerstude. Beason was the organ of Philosophy, and Beason was inpressail. The Identity of Being and Knowing took the place of Consciousness, and became the basis of all speculation. We shall see to what it led in Hegel.

Our notice of Schelling has necessarily been brief, not because he merital no greater space, but because to leave entered into details with any entisfaction, would have carried us for beyond our limits. His works are not only numerous, but defer considerably in their views. All we have endeavoured to represent is the ideas which be produced as developments of Fichto, and which served Hegel as a basis."

^{*} A French translation of Scholling's most paportant work, under the title of Systhus de l'Médiane transconducted by P. Grantbot, the translator of Felite, has appeared, also a version of Beans, on Lee Principes des Choses.

CHAPTER III.

HEGEL.

& L Lieu or Heart.

GEORGE PREDERICK WILLIAM HEGEL was form at Stuttgard, the 27th of August, 1770. He received that clustical education which distinguished the Wirtenbergian students beyond all others; and in his eighteenth year he went to Tübingen, to pursue his theological and philosophical studies. He was there a follow-student with Schelling, for whom he contracted great extern. The two young thinkers communicated to each other their thoughts, and discussed their favorite systems. In after-life, when opposition had sundered these ties, Hegel never spoke of this part of their connection without emotion. In his twentieth year he had to give up all his plans for a professorship, and was content (tunger impelling) to accept the place of private tutor, first in Switzerland, and subsequently in Frankfort.

Early in 1801 his father died; and the small property to inherited enabled him to relinquish his tutorship, and to more to Jerus, where he published his dissertation De Orbits Phaesterons. This work was directed against the Neutronian system of Astronomy. It was an application of Schelling's Philosophy of Nature; and in it Newton was treated with that soom which Heyel never failed to beap upon Empirics, i. e. those who trusted more to experience than to logic. In the same year he published his Difference between Fichle and Schelling, in which he sided with the doctroots of his friend, whom he joined in editing the Critical Journal of Philosophy. It is in the second volume of this Journal that we meet with his celebrated essay Glosden and Hance (Faith and Knowledge), in which Kant, Jacobi, and Fichte are criticized.

At Jean he enjoyed the society of Goethe and Schiller. The former, with his usual sugarity, detected the philosophical genius which as yet lay undeveloped in Hegel; of which more may be read in Goethe and Schiller's Correspondence. Hegel, on the other load, was to the last one of Goethe's staunehest admirers; and many a gleam of lustre is shed over the pages of the philosopher by the frequent quotations of the poet.

At the University of Jenn, Hegel then held the post of Privatdocent; but his lectures had only four listeners. These four hornover were all remarkable men; Galder, Trosler, Lachmann, and Zellmann. On Schelling's quitting Jean, Begel filled his chair; but filled it only for one year. Here he published his Phinomenslogic des Geistes. He finished writing this work on the night of the ever-memorable battle of Jena. While the artillery was rooming under the walls, the philosopher was deep in his work, unconscious of all that was going on. He continued writing, as Archimerles at the singr of Syracuse continued his scientific researches. The pext morning, manuscript in hand, he steps into the streets, proceeding to his publisher's, firmly convinced that the interests of mankind are bound up with that mass of writing which he hugs so tenderly, The course of his reverie as somewhat violently interrupted; bearded and gesticulating French solders arrest the philosopher, and significantly enough inform him that, for the present, the interests of men be elsewhere than in manuscripts. In spite of French soldiers however the work in the time saw the light, and was welcomed by the philosophical world as a new system-or rather as a new modifeation of Schelling's system. The editorship of the Bamberg rewspaper was then offered him, and he quitted Jens. He did not long remain at Bumberg; for in the Autumn of 1808 we find lim Rector of the Gymnasium College at Numberg. He shortly after married Fraulein you Tucker, with whom he passed a happy life, and who hore him two sous. In 1816 he was called to the chair of Heidelberg, and published in 1817 his Europelspielie der Philos. Wincorcheften, which contains an outline of his system. This work so exalted his reputation that in 1818 he was called to the clair of Berlin, then the most important in Gennany. He there lectured for thirteen years, and formed a school, of which it is sufficient to name its members Gazs, Roscakranz, Michelet, Werder, Marheinecke, and Hothe.

Hegel was arised with the cholera in 1831, and after a short illness expired, in the sixty-second year of his ago, on the 24th of Notember, the anniversary of the death of Leibnitz.

§ H. Hrong's Mermon.

Schelling's doctrines were never systematically co-ordinated. He

602 HEGEL

was subtle, ardent, and audictous; but he disregarded precision; and stood in striking contradiction to his predecessors Kant and Fighte in the absence of logical forms.

The effect of his teaching was felt more in the department of the philosophy of Nature than elsewhere. Crowds of disciples, some of them, as Oken and Stoffens, illustrious disciples, attempted the application of his principles; and after a vast quantity of ingenious but sterile generalization, it was found that these principles led to no satisfactory conclusion.

Schelling's ideas were however very generally accepted in the philosophical world at the time Hegel appeared. These ideas were thought to be genuine intuitions of the truth; the only drawback was their want of systematic co-ordination. They were inspirations of the truth; and demonstrations were needed. The position Hegel was to occupy became therefore very clear. Eather he must destroy those ideas and bring forward others; or he must neept them, and, in accepting, systematize them. This latter was no may task, and this was the task he chose. In the course of his labours he deviated somewhat from Schelling, because the regeness conclusions of his logic made such deviations necessary; but these are, after all, nothing but modifications of Schelling's ideas; very often nothing but different expressions for the same ideas.

What then constitutes Hegel's glory? What is the nature of his contribution to philosophy, which has placed how on so high a pedestral of repower? It is nothing less than the invention of a new Method.**

The invention of a Method has always been considered the greatest effort of philosophical genius, and the most deserving of the historian's attention. A Method is a path of transit. Whose discours a path whereon markind may travel in quest of truth, has done more towards the discovery of truth than thousands of men merely speculating. What had the observation and speculation of centuries done for astronomy before the right path was found? And if a Method could be found for Philosophy—if a path of transit from the phenomenal to the nonnegal world could be found should we not then be quickly in possession of the truth?

A Method is all-important. The one invented by Descartes

⁶ This is the claim put up by his disciple Machelet, Greek, der Systems der Philos, ii 604-5; who declarer Hegel's method to be all that can properly be called his swn. Comp. Hegel's Terminekte Subsystem, ii, 479.

nemed promising; but it led to Malebrauche and Spinom. The cer invented by Locke had obvious excellencies; but it was a path of transit to Berkeley and Hume. That of Kaut led to Fichte and Sorpticism.

Curious to consider! In the modern as in the ancient world, the ineritable results of a philosophical Method are Idealism and Scepticism. One class of minds is led to Idealism or Mysticism; another class is led to Scepticism. But as both these conclusions are repagaint to the ordinary conclusions of mankind, they are rejected, and the Method which led to them is also rejected. A new one is found; hopes beat high; truth is about to be discovered; the search is active, and the result—always the same—repagaint Idealism or Sceptizism. Thus struggling and battled, hoping and dispirited, has Humanity for ever renewed the conflict, without once gaining a victory. Sisyphus rolls up the heavy stone, which no sconer reaches a certain point than down it rolls to the bottom, and all the labour is to begin again.

We have already traced the efforts of many noble minds; we have seen the stone laboriously relied upwards, and seen it swiftly roll down again. We have seen Methods discovered; we have followed abventurous spirits as they rushed forward to compost; and seen the discouragement, the despair which possessed them, as they found their paths leading only to a yawning guif of scepticism, or a baseless cloud-land of Idealism. We have now to witness this spectacle trace more. We have to see whither Hegel's Method can conduct us.

And what is this Method which Hegel discovered? Accepting as indisputable the identity of Object and Subject, he was forced also to accept the position, that whatever was true of the thought was true of the thing. In other words, Mind and Matter being identical, Ideas and Objects were correlates, and equally true. This is the position upon which Descartes stood; the position upon which Spinsna stood. Schelling and Hegel arrived at this position by a different route, but they also took their stand upon it.

Now, it is evident that such a position is exposed to nitracks on all sides; to none more so than to the contradictions which rise up from within it. If whatever is true of Ideas is true also of Objects, a thousand absurdities bristle up. Thus, as Knat said, there is considerable difference between this side we possess a hundred dollars, and possessing them. Hegyl's answer is delicious: be declares that "Philosophy does not concern itself with such things as a hundred ent meger.

dollars? (decan ist philosophisch nichts zu erbeuren). Philosophy directs its thoughts only towards that which is necessary and eternal.

Very well: let such miserable illustrations as that of dellars be builshed from discourse; let us concern ourselves only with what is necessary and eternal; let us confine ourselves to abstractions. Are there no contradictions here between Thoughts and Reslitios? For example, we have the Thought of Non-existence; sloes therefore this Non-existence which is our Thought also possess an objective being? Is there a Non-existence?

We have chosen this alle question, because Hegel himself has forced us to it. He heldly says, that the Non-existence—the Nothing—exists, because it is a Thought (das Nichts ist; denn es ist on Gedanke). It is not however merely a Thought, but it is the same Thought as that of pure Being (Seys), viz. an entirely ancoustioned Thought.

In this, coupled with his famous axiom, that 'Being and Non-Being are the same' (Seye usef Nichts ist dasselfs), we have two of the curious results to which his Method led him. It was the Method of Descartes, founded upon Descartes' principle of the truth of ideas being equivalent to the truth of things; but imasmoch as this met with strong opposition from various sides, Hegel resolved to give it a deeper, firmer basis, a basis that went undemeath these contradictions. The basis was his principle of the isleadily of contradictions.

Two contraries are commonly supposed to exclude each other reciprocally. Existence excludes Non-Existence. This notion Hegel pronounces to be false. Everything is contradictory in itself: contradiction forms its essence: its identity consists in being the maon of two contraries. Thus Being (Seps) considered absolutely—considered as unconditioned—that is to say, as Being in the abstract, apart from any individual thing, is the same as Nothing. Existence is therefore identical with its negation. But to conclude that there is not Existence, would be false; for the abstract Nothing (Nichts) is at the same time the abstract Being. We must therefore mate these two contraries, and in so doing we arrive at a middle term—the realization* of the two in one; and this is constituted Existence—it is the world.

^{*} The original word is errobs—the forestiap. It is much used in German speculation to express the transition from Non-being to Being.

Here is another example: in pure light,—that is, light without enter or shadow,—we should be totally enable to see anything. Absolute elemness is therefore identical with absolute obscurity—with its negation, in fact; but neither elemness nor obscurity are complete alms: by uniting them we have clearness mingled with obscurity; that is to say, we have Light properly so called.

Highl thus seared the bull by the horus. Instead of allowing kinself to be worsted by the arguments derived from the contrafictions to which the identity of Existence and Knowledge was exposed, he at once met the difficulty by declaring that the identity of contractes was the very condition of all existence; without a contrary nothing could come into being. This was logical audicity which astounded his countrymen, and they have proclaimed this feat worthy of immortal glosy. A new light second to be thrown upon the world: a new aspect was given to all existences. Being was at the same time Non-Being; Subject was at the same time Object; and Object was Subject: Force was at the same time Impotence; Light was also Durkness, and Darkness was also Light.

> 'Nothing in this world is single; All things, by a law divine, In one another's being mingle.'

The merit of this discovery, whatever may be its value, is considerably diminished when we remember how distinctly it was ensuriated in meierit Greece. Heraclitus had told us how 'All is, and is not; for though it comes into being, yet it forthwith ceases to be.' Empedocles had told us how there was 'Nothing but a mingling said then a separation of the mingled.' Indeed the constant flux mal reflux of life, the many changes, and the compound nature of all things, must easily have led men to such a view. Hegel himself advits that all the positions maintained by Heraclitus lave been by him developed in his Logic. What then was wanting to Heraclitus—what is the great merit of Hegel? A perception of the logical law of the identity of contraries. To this Hegel has the sole classe.

Here, then, is the foundation stone of Hegel's system. He adopts the principle of the identity of Subject and Object. This principle bring prenounced false, because it leads to manifest contradictions, Begel replies that the principle is true; and that it awaf lead to contradictions, because the identity of contraries is the condition of all existence.

Such is the Method which admiring disciples cated as the greatest effect of Philosophy, as the crown of all previous speculations; €06 BESEL

and even in France it has been in some quarters accepted as a revolation.

The loss being given, we may now give the process. Let us take may one Idea (and with Hegel on Idea is a reality, an Object, not simply a modification of the Subject); this Idea by its inhurant activity trads to develope that which is within it. This development operates a division of the Idea into two parts—a positive and a negative. Instead of one Idea we have therefore two, which reciprocally exclude each other. The Idea threefore, by the very act of development, only conduces to its own negation. But the process does not stop there. The negation itself must be negatived. By this negation of its negation, the Idea returns to its primitive force. But it is no langer the same. It has developed all that it contained. It has absorbed its contrary. Thus the negation of the negation, by suppressing the negation, at the same time preserves it.

We may, by way of anticipation, observe that Hegel's notion of God becoming conscious of Himself in Philosophy, and thereby attaining His laghest development, is founded on the above process. God as pure Being can only pass into reality through a negation; in Philosophy He acquires this regulitor, and thus becomes a penitive affirmation.

& III. ARROGUEZ TREALISM.

We have seen Hegel's Method. Whether that be a path of transit to the domain of truth, or only to the chudhand of mysticism and the bogs of absurdity, our readers will very soon decide. Meanwhile we must further detail Hegel's opinious; we must see whither his Method did lead him.

As everything contains within itself a contradiction, and as the identity of the two constitutes its enemes, so we may say that Schelling's cruception of the identity of Subject and Object was not altogether exact. He assumed the reality of both of these poles of the magnet; and the identity be called the point of indifference between them. These two extremities were always separate, though identified. Hegel declared that the essence of all relation—that which is true and positive in every relation—is not the

^{*} The play upon words is social by the German or theless, which means no supposes as well as too preserve." See Oir, Hepvi et la Philos. Albertante, p. 80.

hen because reduced, but the relation steelf. This is the besis of Absolute Idealism.

It may be thus illustrated: I see a tree. Psychologists tell me that there are three things implied in this one fact of vision, viz. a tree, an image of that tree, and a mind which apperhends that image. Fichte tells me that it is I alone who exist: the tree and the image of the tree are but one thing, and that is a modification of my mind. This is Subjective Idealism. Schelling tells me that both the tree and my Ego are existences equally real or ideal, but they are nothing less than manifestations of the Absolute. This is Objective Idealism. But, according to Hegel, all these explanations are false. The only thing really existing (in this one fact of vision) is the Ideal—the relation. The Ego and the Tree are but two terms of the relation, and owe their reality to it. This is alterdise.

Of the three forms of Idealism this is surely the most prepostsness; and that any some man—not to speak of a mon to eminent as Hegel—should for an instant believe in the correctness of the logic which 'brought him to this pass,'—that he should not at once reject the premises from which such conclusions followed,—most ever remain a wonder to all sobse thinkers,—most over remain a striking illustration of the unbounded confidence in had logic which fistinguishes Metaphysicians—

"Gene ratione Stort, et menten pasta chimuris."

Truly, a race and with logic, and feeding the mind with chimerus.

What does this Absolute Idealism bring us to? It brings us to a world of more "relations." The Spincomtie notion of 'Substance,' was too gross. To speak of Substance, was to speak only of one term of a relation. The Universe is but the Universe of Ideas, which are at once both objective and subjective, their essence consisting in the relation they hear to each other, in the identity of their contradiction.

Benark also that this Absolute Idealism is nothing but Hume's Sorpticism, in a dogustical form. Hume denied the existence of Mind and Matter, and said there was nothing but Ideas. Hogel Benies the existence of both Object and Subject, and mys there is nothing but the 'relations' of the two. He blames Kant for horing spoken of Things as if they were only appearances to as (Exschringages for mar) while their real nature (Assick) was inaccessith. The real relation, he says, is this chart the Things we know are not only appearances to us, but are in themselves more ap608 HIGHL

prarances (assolers on sich bloom Erschrinnigen). The real objectivity is this: that our Thoughts are not only Thoughts, but at the same time are the reality of Things.*

This is the Philosophy—not a Philosophy, remember—not a system which may take its place amongst other systems. No, it is the Philosophy per excellence. We have Hegel's word for it;† we have the confirmation of that word by many ordent disciples. True it is, that some of the young Hegelians, when reproached with the constant changes they introduce, reply that is belongs to the nature of Philosophy to change. But these are inconsiderate, rash young men. Mature and soher thinkers (of Hegel's school) declare that, although some improvements are possible in detail, yet on the whole Hegel has given the Philosophy to the world.

And this philosophy is not a system of doctrines whereby man is to guide himself. It is something for greater. It is the contemplation of the self-development of the Absolute. Hegel congratulates markind upon the fact of a new epoch having dawned. 'It appears,' says he, 'that the World-Spirit (Weltyein') has at last succeeded in freeing himself from all encumbrances, and is able to contain Ainself as Absolute Intelligence (sich als absolutes Geint za erforms). . . For he is this only in as far as he knows himself to be the Absolute Intelligence: and this &e knows only in Science; and this heartedge above constitutes his true existence.'!

Such pretentions would be laughable, were they not so painful to contemplate: To think not only of one man, and that one remarkable for the subtlety of his intellect, a subtlety which was its base, begether with many other men—some hundred or so, all raing above the ordinary level of ability—our and all cultivating as the occupation of their lives a science with such pretentions, and with such a Method as that of the identity of contraries! The deliasions doily to be seen are those of ignorance, and only depend upon ignorance. But the delusions of Metaphysics are the delusions of an ambitious intelligence which 'o'er-leaps itself.' Men such as Fichte, Schelling, and Hegel, for example, belong incontestably to a high order of intelligences; yet we have seen to what their remonings brought them; we have seen what absorbities they

^{* *} Dass the Grahmken micht biese unsere Gestanken, soudern zugleich das Anneh für Dinge und des Gegenstatelliebes überkungt sind!— Kargelipudie, p. 85; are sim p. 67. The whole of this Introduction to the Kargelipudie in worth countries.

⁴ Griek der Philips in 1911

terild accept, believing they had found the truth. Hegel especially impersors you with a sense of his wonderful power. His works we have always found very suggestive; his ideas, if repugnant to what we regard as the truth, are yet so coherent, so systematically developed, so obviously coming from matured meditation; that we have always rises from the period with a sense of the author's greatarss. We allade especially to his Lecturez on Æntbeliez, his History of Philosophy, his Philosophy of History, and his Philosophy of Religion.

As for the system itself, we may leave to all readers to decide whether it he worthy of any attention, except as an illustration of the devices errors of speculation. A system which begins with assuring that Being and Non-Being are the same, because Being is the abstract must be conceived as the Unconditioned, and so must Non-Being, therefore both, as unconditioned, are the same; a system which proceeds upon the identity of contraries as the method of Philosophy; a system in which Thought is the same as the Thing, and the Thing is the same as the Thought; a system is which the only real positive existence is that of simple Belation, the two terms of which are Mind and Matter; this system, were it shelly true, leaves all the questions for which science is useful as a light, just as much in the dark as ever, and is therefore unworthy the attention of carnest men working for the benefit of mankind.

Not only is it useless; it is worse, it is permicious. The facility with which men can there all questions into the systematic obscusity of metaphysics, has long been the base of German Literature and Thought. In England and France we have been saved from perpetuating the frivolous discussions of the Schoolmen, mainly because we have retained their nonenclature and terminology, and are worsed by these from off scholastic ground; but the Germans, laving invented a new philosophical language, do not perceive that the new terms disguise old errors: they fail to recognize in Irelieft the familiar face of Ignia Intimes.

§ IV. Hosm's Lone.

Philosophy being the contemplation of the self-development of the Absolute, or, as Hegel sometimes calls it, the representation of the bles (Darability over Elect, it first most be settled in what directions this development takes place.

The process is this. Everything must be first remadered per ar

610 HROEL

(see sich); next in its negation, as some other thing (chaderanys). These are the two terms—the contraries; but they must be identified in some third, or they cannot exist; this third is the Relation of the two (the charas)liveicherys). This is the affirmation which is founded on the negation of a negation; it is therefore positive, real.

The Absolute, which is both Thought and Being, must be considered in this triple order, and Philosophy falls into three parts:-

I. Legre, the science of the Ida" on and for sich.

NATURE-PRILOSOPHY as the science of the Ider in its Andersoys.

III. PHILOMOTHY OF INTELLIGENCE, as the Idee which has re-

turned from its Anderseys to itself.

Logic, in this system, has a very different meaning from that usually given to the weed. It is, indeed, equally with the common logic, an examination of the forms of Thought; but it is more oit is an examination of Things, no less than of Thoughts. As Object and Subject are declared identical, and whatever is true of the Thought is equally true of the Thing, since the Thought is the thing, Logic, of course, takes the place of the ancient Logic and, at the same true, of Metaphysics. It is the generation of all abstract ideas. Consequently it contains the whole system of Science; and the other parts are but the application of this Logic.

Hegel's Logic is contained in three stout volumes of dry bard scholasticism. It is a representation of the Ider, in its process of pure thought, free from all contact with objects. It is wholly abstract. It begins with pure Being. This pure Being, in sirtue of its purity, is succonfificated; but that which has no conficient has no existence: it is a pure abstraction. Now a pure abstraction is also the Notking (dos Niehtr); it also has no conditions; its unconditionalness makes its nothingness. The first proposition in Logic is, therefore, "Being and Non-Being are the same."

Hegel admits the proposition to be somewhat puredoxical, and is fully aware of its openness to ridicule, but he is not a mon to be scarced by a paradox, to be shaken by a sarcasm. He is aware that stopid common-sense will ask, 'whether it is the same if my house

^{*} The Zée is but norther term for the Absolute. We shall use it, rather than Idea, because the English word cannot be employed without creating moreoverry confusion.

my property, the sir I becathe, this town, san, the law, micd, or God, exist or not." Certainly, a very pertinent question how does he masser it? "In such examples," he says, 'particular ends—unlity, for instance—are understood, and then it is asked if it is indifferent to me whether these meful things exist or not? But, in truth, l'infosophy is precisely the doctrine which is to free man from improverable finite nine and ends, and to make him so indifferent to them that it is really all the same whether such things exist or not.' Here we trace the Alexandrian influence;—except that Plotinus would never have built the audicity to say that Philosophy was to make us indifferent whether God existed or not; and it must have been a slip of the pen which made Hegel include God in the examples; a slip of the pen, or clue the 'rigour of his pitiless logic,' of which his disciples talk. 'Pitiless' indeed!—more interpid absentity it would be difficult to find.

Remark, also, the sensive nature of his reply. Common sense suggests to him a plain direct question, not without interest. This question, plain as it is, goes to the bettom of his system. He reades it by answering, that Philosophy has nothing to do with the interests of new. Very true; his system has nothing to do with them. But the question put was not, 'Has Philosophy to concern itself with the interests of manking?' The question put was, 'If, as you say, Being and Non-Being are the same, is it the same thing to have a house and not to have it?' Hegel might have given a better master even upon his own principles.

To return lessever. The first proposition has given as the two contraries, there must be an identity—a relation—to give them positive reality. As pure Being, and as pure Non-Being, they have no reality; they are more potentialities. Unite them, and you have the Becoming (Worden), and that is reality. Analyze this idea of Becoming, and you will find that it contains precisely these two tlements,—a Non-Being from which it is evolving, and a Being which is evolved.

Non these two elements, which reciprocally contradict each other, which increasently tend to absorb each other, are only minimal in their reality by means of the relation in which they are to each other;—that is, the point of the magnet which keeps the poles assuder, and by keeping them assuder prevents their annihilating tach other. The Becoming is the last concrete Thought we can have, the first conception; Being and Non-Being are pure abstractions.

613 HEGEL

A question naturally auggests itself as to how Being and Non-Bring pass from Abstractions into Realities. The only answer Hegel gives us is that they become Realities; but this is answering us with the very question itself. We want to know been they become. In themselves, as pure Abstractions, they have no reality; and although two negatives make an affirmative in language, it is not so evalent how they can accomplish this in fact. The question is of course insoluble; and those Hegeltans whom we questioned on the point unanimously declared it to be one of those truths (very numerous in their system) which can be comprehended, but not proved.

Let us grant the Becoming. It is the identity of Being and Non-Being; and as such it is Being as determined, conditioned. All determination (Bestimususy) is Negation.* Therefore, in order that Being should become, it must suffer first a negation; the Assickeys must also be Anderseys, and the relation of the two is total reality, the Amond/Sirzicheron.

Quality is the first negation: it is the reality of a thing. That which constitutes Quality is the negation which is the condition of its Being. Blue, for example, is blue only became it is the negation of red, given, purple, etc.; a measion is a meadow only because it is not a vineyard, a park, a ploughed field, etc.

Being, having suffered a Negation, is determined as Guality,—it is Something, and no longer an Abstraction. But this comething is limited by its very condition; and this limit, this negation, is external to it; hence Something implies Some-other-thing. There is a Thir and a That. Now the Something and the Some-other-thing, the This and the That, are the same thing. This is a tree; That is a house. If I go to the house, it will then be the This, and the tree will be That. Let the tree be the Something, and the house the Some-other-thing, and the same change of terms may take place. This proves that the two are identical. The Something carries its opposite (other-thing) within itself; it is constantly becoming the other-thing. Clearly showing that the only positive reality is the Releties which always subsists throughout the clamps of the terms.

This, it must be owned, looks like the insunity of Logie. It is not however uncompled in Hegel's works. In his Philassessologie des

^{*} Tire, as many other alone, is betround from Spinora, in plane system it has real signationate. In Heppi's it is a more play upon stoods

Gristes, he tells us that perception gives us the ideas of Now, Here, This, etc. And what is the Now? At uson I say, "Now it is day." Twelve hours afterwards I say, "Now it is night." My first afternation is therefore false as to the second, my second false as to the first: which proves that the Now is a general idea; and as such a real existence, independent of all particular Nows.

Our readers are by this time probably quite neary of this frivaless Logic; we shall space them my further details. If they wish further to learn about Quantities, Identities, Diversities, etc., they

must consult the original.

Those who are utter strangers to German speculation will wonder, perlaps, how it is possible for such verbal quilibles to be accepted as Philosophy. But, in the first place, Philosophy itself, in all its highest speculations, is but a more or less ingenious playing upon words. From Thales to Hegel, verbal distinctions have always formed the ground of Philosophy, and must ever do so as long as we are unable to penetrate the essence of things. In the second place, Hogel's Logic is a work requiring prodigious effort of thought to understand; so difficult and ambiguous is the language, and so obscure the meaning. Now, when a man has once made this effort, and succeeded, he is very upt to over-value the result of all that labour, and to believe what he has found, to be a gennine truth. Yurdly, Hegel is very consistent; consistent in authority, in absurfity. If the student yields assent to the premises, he is sure to be dragged irresistibly to the conclusions. Fourthly, the reader must not suppose that the absorbities of Hegel's system are so apparent in his works as in our exposition. We have exerted ourselves to the atmost to preserve the real significance of his speculations; but we have also endeavoured to bring them into the clear light of day. Anything except a revised translation would rereal some aspects of the absurdity, by the very fact of beinging it out of the obscuray with which the German terminology wills it. The mountain looming through a fog turns out to be a miserable but as soon as the by is scattered; and so the bossed system of Absolute Idealism turns out to be only a play upon words, as soon as it is dragged from out the misty terminology in which it is enshroused.

61-5 HEGEL.

§ V. APPLICATION OF THE METERS TO NATURE AND HISTORY, RELEGIOUS AND PHILOSOPHY.

Having exhibited the various evolutions of the Idee as pure Thought, Hegel undertakes to exhibit its objective evolutions in the domain of Nature.

When we lack abroad upon Nature, we observe an cudless variety of transformations. At first these seem without order; on booking deeper, we find that there is a regular series of development from the lowest to the highest. These transformations are the struggles of the Idee to monifest itself objectively. Nature is a dumb Intelligence striving to articulate. At first she mumbles; with succeeding efforts she articulates; at last she speaks.

Every modification which the Idee undergoes in the sphere of pure Thought it endeavours to express in the sphere of Nature. And thus an object is elevated in the scale of creation in so far as it resumes within itself a greater number of qualities; inorganic matter is succeeded by organic, and amongst organized beings there is a graduated scale from the plant up to man. In man the Idee nosumes its highest grade. In Reason it becomes conscious of itself, and thereby attains real and positive existence—the highest point of development. Nature is devine in principle (an sich), but it is a mistake to suppose it divine as it exists. By the Pautheists Nature is made one with God, and God one with Nature. In truth, Nature is but the exteriority (Jeasser/lickless) of God; it is the passage of the Lifer through imperfection (Abfall der Lifer). Observe macover that Nature is not only external in relation to the Lifer, and to the subjective existence of the Lifer, namely Intelligence; but enteriority constitutes the condition in virtue of which Nature is Nature (easilers die Jensserlichkrif mocht die Bestiessung aus, in neither sie als Nature (et).

The Philosophy of Nature is divided into three sections - Mechanics, Physics, and Physiology. Into the details, we are happy to say, our plan forbids us to enter; or we should have many striking illustrations of the futility of that Method which pretends to censtruct the scheme of the world a priser. Experimental philosophers -Newton reperially-are treated with consistent contempt. Hegel is not a timid speculator; he recoils from no consequence; he howadown to no name; he is impressed by no fact, however great. That Newton's sperulations should be no better than drivel, and his "discoveries" no better than illusious, were natural consequences of Higel's fundamental theories. That all Europe had been steadily persenering in applying Newton's principles, and extending his dismeerics,-that Science was making gignatic strides, hourly imputing man's mastery over Nature, bourly improving the condition of mankind,-this fact, however great it might appear to Others, when coupled with the other fact, that upon the ontological Method no discoveries had yet been made, and none seemed likely to be made-appeared to Hegel as unworthy of a philosopher's notice. The interests of mankind were vulgar ecosiderations, for which there would always be abundant valgar minds. The philounder had other objects.

The third and last part of Hegel's system is the Philosophy of Intelligence. Therein the Islee returns from Nature to itself, and returns through a consciousness of itself.

Subjectively the Idea first manifests itself us a Soul; it then return upon itself, and becomes Consciousness; and finally renders itself in Object to itself, and then it is Reason.

Objectively the Ider manifests itself as Will, and realizes itself in History and in Law.

The Subjective and Objective manifestations being thus marked out, we have now to see in what manner the identity of the two will manifest itself. The identity of the Objective and Subjective is the Blee, as Intelligence, having consciousness of itself in individuals, and realizing itself as Art, as Brilgion, and as Philosophy. 616 MEOKL

The 'Lectures on the Philosophy of History,'s edited by the inte accomplished Professor Gans, is one of the pleasantest books on the subject we ever real. The following ideas will be sufficient to give an indication of its method.

History is the development of the Ides objectively—the process by which it attains to a consciousness of itself by explaining itself.† The condition of Intelligence is to know itself; but it can know itself only after having passed through the three phases of the method, namely, affermation, negation, and negation of negation, as the return to consciousness endowed with reality. It is owing to these phases that the human race is perfectible.

States, Nations, and Individuals represent the determinate moments of this development. Each of these moments manifests itself in the constitution, in the manners, in the creeds, in the whole accoul state of any one nation. For this nation it is what we call the spirit of the age; it is the only possible truth, and by its light all things are seen. But with reference to the absolute blee, all these particular manifestations are nothing but moments of transition—instruments by which the transition to another higher moment is prepared. Great men are the incarnations of the spirit of the age.

It is not every nation that constitutes itself into a state; to do that, it must pass from a family to a horde, from a horde to a tribe, and from a tribe to a state. This is the formal realization of the fifer.

But the Idea must have a theatre on which to develope itself. The Earth is that theatre; and as if is the product of the Idea (according to the Nethrykitosophie), we have the curious phenomenon of an actor playing upon a stage—that stage being himself! But the Earth, as the geographical basis of History, has three great divisious;—1. The mountainous regions. 2, The plains and valleys. 3. The roasts and mouths of rivers. The first represents the promitive condition of mankind; the account the more advanced condition, when society begins to be formed; the third, when, by means of river-communication, the activity of the human race is allowed free development in all directions, particularly

⁴ Wierle, vol. in.

⁸ History is a sect of Theodown, the merit of originality, however, which Hepel claims (Einfeldung, p. 20), is due to Vice, from whom he has largely borrowed; Vice expressly calls his New Science a Claif Theology of Divise Providence. See La Science Nouvelle, here is the iv.

of commerce. This is another of the ideas of Vico," and is in contradiction to all history.

The great assessments of History are four. 1. In the East we have the predominance of substantiality: the Islee does not know its foreloss. The rights of men are unknown because the East knows oulr that one is free. This is the childhood of the World. 2. In. Greece we have the predominance of individuality. The blee knows that it is free, but only under certain forms, that is to say, oult asses are free. Mind is still mixed with Matter and finds its expression therein; this expression is Beauty. This is the usubhoof of the World. 3. In Rome we have opposition between the Objective and Subjective: the political universality and individual fredam both developed yet not united. This is the manassal of the world. 4. In the Teutonic Nations we have the unity of the contradiction-the Idee knowing itself; and instead of supposing like Greece and Rome that some only are free, it knows that all men are free. This is the old-one of the world; but although the roldage of body is weakness, the old-age of Mind is ripeness. The first form of government which we see in History is Dougotime; the second is Democracy and Aristocracy; the third is Mourechy."

On reading over this meagre analysis, the ingestous speculations of the original will scarcely be recognized. Such is the art with which Hepd clothes his ideas in the garb of Philosophy, that though aware that he is writing fiction, not history, and giving us percersions of notorious facts as the laws of historical development; —telling as that the Spirit of the World manifests himself under such and such phases, when it is apparent to all that, granting the throry of this World-spirit's development, the phases were not such as Hegel declares them to have been;—although we are aware of all this, yet is the book so ingenious and amosing, that it seems almost unfair to reduce it to such a capad worleass as our analysis. Nevertheless the principles of his philosophy of History are those we have given above. The application of those principles to the explication of the various events of History, is still more ingenious.

Hegel's Philosophy of Religion has in the last few years been the subject of bitter disputes. The schoons of the young Hegelians the doctrines of Strauss, Fenerbach, Bruno Bance, and others being all deduced, or pretended to be deduced, from Hegel's system,

[.] La Science Amselle, have i. ch. = \$ 97.

⁺ Philisophie der Gentliebe, p. 128.

518 HEGHA.

stuch angry discussion has taken place us to the real significance of that system. When doctors thus disagree we shall not presume to decide. We will leave the matter to theologisms; and for the present only notice Hegel's fundamental ideas.

It is often a matter of worder to see how Hegel's Method is applied to all subjects, and how his theory of life can be brought to explain every product of life. This is doubtless a great logical merit; and it inspires disciples with boundless confidence. Few, however, we suspect, have approached the subject of Religion without some misgitings as to the applicability of the Method to explain it. Probably the triumph is great when the applicability is shown to be as perfect here as elsewhere. Of this our readers shall judge.

Hegel of course accepts the Trinity; his whole system is Trinitarian. God the Father is the eternal Idea on said für sich: that is to say, the Idea as an unconditioned Abstraction. God the Sonengendered by the Father, is the Idea as Anderessyn: that is to say, as a conditioned Beality. The separation has taken place which, by means of a negation, gives the Abstraction real existence. God the Holy Ghost is the Identity of the two; the negation of the segation and perfect totality of existence. He is the Consciousness of himself as Spirit: this is the condition of his existence.

God the Father was before the World, and created it. That is to say, he existed an sich, as the pure Idee, before he assumed any reality. He created the World, because it is the essence of his being to create (as gebort we senses Seyn, Wesen, Schöpfer on segu). Did he not create, then would his own existence be incomplete.

The valgar notion of theologians is that God created the world by an act; but Hegel says that the creation is not an act, but an eternal moment,—not a thing dose, but a thing perpetually doing;— God did not create the world, he is eternally creating it. Attached also to this rulgar rotion, is another less precisely but more commonly entertained; namely, that God, having created the world by an act of his will, lets it develops itself with no interference of his; as Goethe somewhere ridicules it, he sits aloft seeing the world go.* This was not the doctrine of St. Paul, whose pregnant words are, "In How we live, and move, and have our being." We live in God, not out of him, not simply by him. And this is what Hegel means when he denses that the creation was a single act. Creation was, and is, and ever will be. Creation is the reality of God: it is God passing into activity, but neither suspended nor exhausted in the act.

This is all that we can here give of his Philosophy of Religion; were

we to writter further, we should only get ourselves entangled in the theray labyrinth of theological problems. Let us pass therefore to his Bistory of Philosophy, which, according to him, is the history of the development of the Ider as intelligence. This development of thought is nothing more than the various transitions which constitute the seasons of the absolute Method. All these moments are represented in history; so that the History of Philosophy is the reproduction of the Logic under the forms of intelligence. The excession of these moments gives to each period a particular philosophy, but these various philosophies are, in truth, only pure of the one philosophy. This looks like the Erlecticism of Victor Cousin; and indeed Cousin's system is but an awkward imitation of Hegel: but the Frenchman has either misunderstood, or has modified, the views of his moster.

Historically speaking, there have been, according to Hegel, but two philosophies—that of Greece and that of Germany. The Greeks conceived Thought under the form of the Idee, the moderns have conceived it under the form of Spirit. The Greeks of Alexandria arreed at unity; but their unity was only ideal, it existed objectively in thought. The subjective aspect was wanting: the totality knew itself not as subjective and objective. This is the triumph of modern philosophy.

The isossends have been briefly these :—1. With Thales and the Elenties, the Ides was conceived as pure Being: the Ouc. 2. With Plate it was conceived as Universal, Essence, Thought. 3. With Aristotle as Conception (Beyriff). 4. With the Stoics, Epicureans, and Scepties, as subjective Conception. 5. With the Alexandrians as the totality of Thought. 6. With Descartes as the Self-Concionates. 7. With Fichte in the Absolute, or Eyo. 8. With Scholling in the Identity of Subject and Object.

We close here our exposition of Hegel's tenets; an exposition which we have been forced to give more in his own words than we could have wished; but the plan we adopted with respect to Kunt and Fields would not have been so easy (we doubt if it be possible) with respect to Hegel, whose language most be learned, for the majority of his distinctions are only verbal. In Knot and Fields the thoughts were to be grappled with; in Hegel the form is everything.

We have only touched upon essential points. Those desirous of more intimate acquaintance with the system are referred to the admirable edition of his complete works, published by his disciples, in 620 HEGEL

twelve volumes, octavo. If this voluminousness be somewhat too alarming, we can recommend the abridgment by Franz and Hilbert (Hegel's Philosophie in wortheless Auszigen, Berlin, 1863), where the whole system is given in Hegel's own words, and only his illustrations and minute details are omitted. Michelet's work is useful mainly for its bibliography. He indicates the various directions taken by Hegel's disciples. Chalyhim is popular, but touches only on a few points. Barehou de Penhoen evidently knows Hegel only at second-hand, and is not to be trusted. Dr. Ott's work is ill-written, but is very useful as an introduction to the study of the works themselves, and has been very useful to us in our exposition. No work of Hegel's has been translated into English; and only his Æsthetik into French, and that is more an analysis, we believe, than a translation. The Philosophy of History has been translated into Italian.

^{*} Since this was written a part of the Logic has appeared under this title,— The Subjective Logic of Heyel, formulated by H. Stimes and J. Waffan, 1815, To the list of works mentioned above should be added Wilm's admirable Hirt do be Philos. Allowands, by far the best work on the subject known to me.

TENTH EPOCH.

PSYCHOLOGY SEEKING ITS BASIS IN PHYSIOLOGY.

CHAPTER 1.

CABANIS.

WHILE Outology was re-asserting its claim in Germany, with such results as we have seen, Philosophy in England and France relinquished its lotty claims, and contented itself with the enfeatour to construct a Psychology. The writings of Reid, Strutart, Brown, James Mill, and their disciples, valuable in many respects, are all deficient in Method, all without a firm basis. The attempt of Hartley and Darwin to connect Psychology with Physiology, we have som was premature. It nevertheless pointed out the true direction. If Psychology is to be studied as a Science, it must be studied according to rigorously scientific principles; if, on the contrary, it is to be studied as a branch of Metaphysics, then indeed, the Scotch school, and every other unscientific school, may justly complain of the encroschment of Physiology on their domain.

The history of the rise of psychological Method remains to be written. It began with Hobbes and Locke. They opposed the reigning doctrine of innate ideas. They analyzed Thought as the product of Experience. Hobbes, as was natural in the first vehetemor of the swing of reaction against spiritualism, recognizes bothing in the mind but sensations in all their surreties; the mind, he said, is moved by external motion, that is all. Locks, on despersustination, saw that there was something more than this; he saw, finly it is true, yet never overlooking it altogether, that the mind respected. Not only Sense, but Beflection on the materials given through Sense, furnished, he said, the complex thoughts of man. Thus he prochimed Experience the source of knowledge. The wind of the child was like a short of blank paper on which Experimes wrote its various records. In Locke, we see the initial steps of the Physiological Method; and as he was himself on unatomist, there is nothing surprising in his having been led by his

622 CAHANIS.

study of man's structure to some conclusions respecting man's mind. He directed that attention to Sense which metaphysicums had been in the habit of directing to ideas and verbal subfleties; and by so doing, took an important step towards the confrontation of speculation with fact; and initiated the still more important idea of a countext relation between organ and function. He also was led to study the growth of usind; and hence his frequent reference to scrages and children, which distresses Victor Cousin, who is often as terrified at a fact as at a ghost.

Great as Locke's services were, there was a radical vice in his system which prevented its acceptance. He began the Physiological Method, but he only began it. The Experience-hypothesis would not suffice to explain all phenomena (at least not as that hypothesis was then understood); there were forms of thought neither redueithe to Sense and Reflection, nor to individual Experience. He drew illustrations from children and savages; but he neither did this systematically, nor did be extend the Consecrative Method to assurate. The prejudices of that age forbade it. The ignorance of that age made it impossible. Comparative Physiology is no older than Goethe, and Comparative Psychology is only now glimmering in the minds of men as a possibility. If men formerly thought they could understand man's body by dissecting it, and did not need the light thrown thereon by the dissection of animals; they were stiff less likely to seek psychical illustrations in mimals, denying, as they did, that animals had minds

The school of Locke, therefore, although regarding Mind as a property of Matter, consequently directing attention to the lemma regarding, trying to understand the mechanism of sensation, and thus dealing with tangible realities instead of with impolphile and ever-shifting entities, was really incompetent to solve the problems it had set itself, because its Method was imperfect, and its knowledge incomplete. The good effect of its labours was positive; the ceil, negative. Following out this positive tendency, we see Hartley and Durwin advancing still nearer to a true Method; by a bold hypothesis, making the phenomena dependent on vibrations in the nerves; thus leading to a still more precise and definite consideration of the organism.

These were, however, tentatives guided by no distinct conception of the necessary relation between organ and function; and the Physiological Method, truly so called, must be first sought in Calumis. CABANIS. 623

Pierre Jean Georges Cahanis was born 5th of June, 1757, at Come, near Brives. He become a physician, and established himself at Auteuil, where, in the house of Madame Helretons, he coltraded the acquaintance of Turgot, D'Holbach, Franklin, Condillar, Didenot, and D'Alembert. To these let us add Condervet and Mirabeau, both of whom he attended in their last laurs. He died on the 6th of May, 1808. He wrote several works, but one only has survived in the memories of philosophic renders: Rapports du Physique et du Noval de l'Housse.*

A disciple of Condillar, he nevertheless sur, more distinctly than any man before him, one radical vice of Condillac's system, namely, the limitation of mental phenomena to sensations, and the nonrecognition of counsie instincts. If sensation were the admitted source of all secural phenomena (and Calumis rightly extended these planamena beyond 'ideas'), it became the duty of philosophers to exemise the nature of sensation itself. 'No one,' he says, 'had elearly explained in what the act of sensibility consists. Does it always presuppose consciousness and distinct perception? and must we refer to some other property of the living body all those unperpriend impressions and movements in which volition has no part?" To put this question was to inaugurate a new study. It became accessary to examine whether all mental phenomena were not reincible to the fundamental laws of sensibility. All the while that the Intellect is judging and the Will is desiring or rejecting, many other functions are going on, all more or less necessary to the presertation of life. Have these diverse operations may influence, the one on the other? And is it possible from the consideration of diffemet physical and moral states, which are observed simultaneously, to seare the relations which connect the most striking phenomena, with such precision as to be certain that in the other less obvious eases, if the connection is less easily detected, it is so simply because the indications are too fegitive?"

This conception of a possible Psychology is in itself enough to mark for ever the place of Calumis in the History of Philosophy. It establishes Psychology as one branch of the grust science of Life. It connects the operations of intelligence and volition with the

⁸ This work originally appeared us n across of Mosciers read before the Institute (1728-20). It was published as a sequence book in 1803, ander the tale Traité de Physique et de Hucal de l'Humon; which tale is also borne by the around edition of 1805. Not until 1815, and after the death of Cabania, was the word Rapports substituted for Traité.

624 CABANIS.

origin of all tital movements. It makes Life and Mind correlatives. This was a revival of the great truth clearly recognized by Aristotle, from whom it descended to the Schoolmen, "Impossibile est,' ways Aquinas, very emphatically, 'in one begins esse planes animas per essentiam differentes, sed una tantom est anima intellectiva, que vegetativa et sensitiva et intellectiva officiis fungitur." The division of Life and Mind as two distinct entities was introduced by the Italians of the Benaissauce, adopted by Bacon, and once more rejected by Stahl, who returned to the Aristotelian conception. With the fall of Stahl's doctrine, the separation of Mind from Life again became the dictum of the schools, until Cahanis; no one since Cabasia scens to have been thoroughly impressed with the unity of the two till Mr. Herbert Spencer presented it as the hasis of psychological induction.* The consequences were immedistractif Mind sens to be studied as one aspect of Life, it rould only be efficiently studied on that inductive and experimental Method which had reached the certain truths of positive science: Les principes fondamentaux seraient également solides ; elles se formement également par l'étude sésère et par la composition des faits ; elles s'étendraient par les mêmes néchodes de raisonnement. Cabanis warms his renders that they will find nothing of what is called Metaphysics in his book; they will only find physiological reamrelies, mais dirigées vers l'étude particulière d'un ordre de foucflows:

In the purely physiological direction, indeed, Cabanis had many producessors, from Willis in the middle of the seventeenth century, to Prochaska, who preceded Cabanis by one year only.† The nervous system had of course been studied by physiologists, and this study led them to psychological theories; but although we may find elsewhere, especially in Union and Prochaska, sounder views of the physiology of the normus system, we find nowhere so clear and large a conception of the physiological psychology.

"Subject to the action of external bodies," says Calonis, "num finds in the impressions these bodies make on his organis at once

^{*} Spencer, Polocipho of Psychology, 1865.

T Tetricitie and the Physiologic des Ministes, 1707. Cariously enough the second and third editions of this work were exactly contemporateous with the second and third editions of Calania, 1808 and 1800 (counting the publication in the Minister of Panistra's as one edition). It is not to be trapposed that Cabania know of Prochaska's existence it has in there more than a greeful resonabling in their physiological conclusions.

his knowledge and the causes of his continued existence; for to live is to feel; and in that admirable chain of phenomena which constitute his existence, every send depends on the development of some foculty; every faculty by its very development satisfies more want, and the faculties grow by exercise as the wants extend with the facility of satisfying them. By the continual action of external locks on the senses of man, results the most remarkable part of his existence. But is it true that the nervous centres only receive and combine the impressions which reach them from these hodies? Is it true that no image or idea is formed in the brain, and that no determination of the sensitive organ takes place, other than by virtue of these same impressions on the senses strictly so called?"

This question cuts away the very root of Condillar's system. Calassis had no difficulty in showing that Condillar's limitation of our mental phenomena to the action of the special senses, was a contradiction of familiar experience, e. g. the manifold influence mercised by the age, sex, temperament, and the riscend sensations generally. A survey of the human organism, compared with that of animals, conducted him to the following conclusions:—

'The faculty of feeling and of spontaneous movement forms the

"The faculty of feeling consists in the property possessed by the nervous system of being warned by the impressions produced on its different parts, and notably on its extremities. These impressions are internal or external.

*External impressions, when perception is distinct, are called sometimes.

'Internal impressions are very often vague and confused, and the aximal is then only warned by their effects, and does not clearly distinguish their connection with the causes.

'The former roundt from the application of external objects to the organs of sense; and on them is not depend.

The latter result from the development of the regular functions, or from the maladies to which each organ is subject; and from these inner those determinations which bear the name of éastiacts.

Feeling and movement are linked together. Every movement is determined by an improssion, and the nerves, as the organs of feeling, animate and direct the motor organs. 626 CABANIS.

"In feeling, the nerrous organ reacts on itself. In movement it reacts on other parts to which it communicates the contractile faculty, the simple and formal principle of all animal resonant.

*Finally, the vital functions can exercise themselves by the influence of some nervous ramifications, isolated from the system: the instinctive faculties can develope themselves, even when the brain is almost wholly destroyed, and when it seems wholly insulice,

"But for the formation of thoughts it is necessary that the brain should exist, and be in a firalthy condition: it is the special organ

of thought," !!

He justly repudiates any attempt to explain seasibility, which must be accepted as a general property of organized beings, in the same way that attraction is necepted as a general property of masses. No general fact admits of explanation. It can only be subordinated to some other fact, and be explained by it, on the supposition that it is not general. Accepting sensibility therefore as an ultimate fact in the organic world, be detects its phenomena running through all those called vital and all those called mental.

'It is comething,' he says, " to have established that all ideas and all moral plumomena are the results of impressions received by the different organs) and I think a still wider step is taken when we have shown that these impressions have appreciable differences, and that we can distinguish them by their seat and the character of their products, although they all act and react on each other, on account of the rapid and continual communications with the seasitive organ. § The object of his treatise is to examine the relations existing between the moral and physical conditions, how the sensations are modified by modifications in the organs, how ideas, instincts, parrious are developed and medicied by the influences of age, sea, temperament, meladics, etc. It is not therefore a treatisc an Psychology, but contributions towards a science of Psychology, and is such may still be read with advantage, although the science of the present day rejects many of its physiological details, He foresaw that this would be so. "Le lecteur s'apercevm bientôt que nous entreus an done une carrière toute nomelle. Je n'ai pre la prétention de l'avoir paresura jusqu'an bont; mais des hommes plus habiles et plus heureux achèvesent ce que trop souvent je n'ai pu que tenter."

As a specimen of industries Psychology, we must not pass over in

^{*} Describer Minotes, 5 cm. + Thirly St.

silence his experimental proof of instinct being developed by certain regards conditions. He takes one of the most marcellens of instincts, that of maternal love, and having analyzed its physiological conditions, he says, ' In my province, and some of the neighbouring previnces, when there is a deficiency of sitting Hens a suggistr practice is customary. We take a capen, plack off the feathers from the abdomen, rub it with nettles and enegar, and in this state of local irritation place the capen on the eggs. At first he remains there to southe the pain; soon there is established within him a series of nunccustomed but agreeable impressions, which attackes him to these eggs during the whole period of incubation; and the effect is to produce in him a sort of factitions maternal love, which radines, like that of the hear, as long as the chickens have need of aid and protection. The cock is not thus to be medified; he has an instinct which carries him checkens here.'

The marchts of the conception which Cabanis put forth, and the interest attached to many of his illustrations, made his work very papalar; but its influence was only indirect. The ignorance which almost all psychologists soutinged to display, not only of Physiology, has of the necessity of a physiological Method, together with the shern excited by the accessation of 'materialism,' nided as it was by the reaction, mainly political, but soon extending study to philosophical questions, which condemned the labours of the eighteenth certary, left Cabanis with few afflerents and no continuers. In diaborate works the brain was still designated as the 'organ of the Mind," but the Mind was passionately declared not to be the function of the brain; the profounder views of Cahanis, which regarded Most as one sepect of Life, were replaced by the old metaphysical conceptions of h Mos, the Ego, the immaterial Entity playing ages the brain as a musician plays upon an instrument.* Instinct was no longer regarded as determined by the organism, changing with its changes, rendered abortive by mutilations, and rendered active by stranslation; but as a 'mysterious principle implanted' in the organism; a "menething" which, although essentially mysterious and unknownlik, appeared to be perfectly well known to the metaphysicians.

^{*} Our heing writer, of authority, has gravely declared that mental farigues in the constituences which the mind has of the ferric's vertices! In our confound mobility to authorized what matter in why will men perset in degracing on what it is not? We know neither matter nor specific we only know plantages.

628 CABANIS.

While the reaction was strong against Cabanis and against the whole eighteenth-century Philosophy, there arose another doctrine, which, taking Physiology as its arose of lusis, succeeded, in spate of vehement opposition, in ustablishing itself permanently among the intellectual tendencies of the age; and that doctrine may now be said to be the only psychological one which counts any considerable mass of adherents. I allude to Phrenology.

CHAPTER II.

PHRENOLOGY.

& I. Larg or Gall.

PRANCIS JOSEPH GALL was born at Tiefenbrunn, in Sushia. on the 9th of March, 1757. In the prefice to his great work, Autonie et Physiologie du Sysfeur Nerveux, 1810, lus narrabes how as a boy he was struck with the differences of character and talents displayed by members of the same family, and how he observed certain external porniarities of the head to correspond with these differences. Finding no clue given in the works of metaphysicians, he resumed his observations of nature. The physician of a Imatic asylum at Vienna allowed him frequent occasions of noticing the coincidence of peculiar monominiates with peculiar configurations of the skull. The prisons and courts of justice furnished him with abundant material. Whenever he heard of a man remarkable either for good or evil, he made his head a study. He extended his observation to animals; and finally sought confirmation in anatomy. The exterior of the skull he found, as a general rule, to corressond with the form of the brain.

After twenty years of observation, dissection, theorizing, and argeing, he delivered his first course of lectures in Victura. This was in 1796. The novelty of his views excited a great sensation; one party functically opposing them, another almost as functically esponsing them. Ridicule was not sparing. The new system lent itself to ridicule, and angry opponents were anxious, as opponents usually are, to show that what made them angry was atterly farcical. In 1800 Gall gained his best disciple, Sporzheim. Hitherto Gall had been aided by a young arctomist, named Niklas, to whom he taught the new method of dissecting the brain; ** new Spurzbeim's mastery of anatomical manupulation, combined with his power of generalization and of popular exposition, came as welcome

Gall pays his tribute to Niklas in the first edition of the short of Phys.
 du System Nerveuer, it profice av. In the second edition this tribute is consted; not very constantly.

aids in the gigantic task of establishing the new doctrine on a scientific basis.

In 1802 M. Charles Villers, the translator of Kant, published his Lettre à Georges Cavier sur son Nauvelle Béseir du Cerreau per le Docteur Gall. I have not been able to procure this Letter, but it is in many points interesting to the historian of Phremology, because it not only expounds the doctrine as it was then conceived, but describes the localization of the organs then fixed on by Gall. A plate represents the skull, marked by Gall himself, with the fourand-twenty organs, which at that period comprised the 'original faculties' of the mind. Among these twenty-four, there are four subsequently discarded altogether: Vital Force-Susceptibility-Penetration (independent of that which characterites the metaphysical faculty)-and Generosity (independent of benevolence). Not only are these four astonishing organs marked by Gall as repressenting original faculties, but the twenty organs which were afterwards retained by him are slifferently localized; so that, according to M. Löut, from whom I borrow these details, 'of those twenty organs there is scarcely one which occupies the place Gall faulty assigned to it.14

Plarenologists should give prominence to this fact. They are bound not to pass it over. In every way it is important in the history of the dectrine. It may perhaps be satisfactorily explained; but until it be so explained, it must tell against them; and for the very reason which they increasently advance as their chain to consideration, namely, that the several organs were established by observation, not by any theory.† For, if the doctrine had been extablished by a uningling of hypothesis and observation, nothing would be more likely than that the first sketch of it would be immature in conseption and uncertain in details; whereas, if the doctrine grow up slowly from a gradual accumulation of rigorously verified facts, those facts would remain constant through all the tentative changes of doctrine. Gall had been twenty years collecting facts of correspondence between external configuration and peculiarities of character. He had controlled these observations by repeated

Lélat Rejet de l'Organologie Phréodogique, 1843, p. 20.

^{† &#}x27;On voit par la nairelle de con reclerches que le premier pas fat fait pas la découverte de quelques organes ; que ce n'est que graduellement que nom avece fait purler los faits pour en dédaire les principes générain, et que c'est subséquencement et à la fin que nous avons appres le sonssites la atrantage du couveau.'—Assé, et Phys. i. perface aveis.

wrifestions. Prisons, Insatic asylums, busts, portraits, remarkable men, even animals, had funnished him with facts. Unless these facts really deserve all the credit which is demanded for them, Phornology has the ground out from under it; and if we are to give them our confidence, upon what ground can we relinquish it in farour of subsequent facts, which deay all that has been said lafere? If Gall could be decrived after twenty years of observation of facts which, according to his statement, are very easily observed, because very obvious in their characters, why may be not have been equally decrived in subsequent observation? If one collection of facts forced him to assign the organ of poetry to a particular spot (on the skull marked by him for M. Villers), how came another collection of facts to displace poetry, and substitute benevolence on that spot? Are the manifestations of poetry and benevolence so closely allied as to mislead the observer?

Probably Spurabean's assistance come at the right moment to metify many of the harardons psychological statements, and to marshal the facts in better order. Together they made a tour through Germany and Switzerland, diffusing the knowledge of their doctrine, and everywhere collecting fresh facts. On the 30th October, 1806, they entered Paris. In 1808 they presented to the Institute their Memoire on the Anatomy and Physiology of the Nervino System in general, and of the Brain in particular; and in 1810 appeared the first volume of their great work, under the same title, which work was remodelled in 1813, and published in six columns, octavo, under the title of Fauctions du Gorceau.

In 1813 Gall and Sporzheim quarrelled and reparated. Sporzleim came to England, Gall remained in Paris, where he died on the 23d of August, 1828. At the post-morton examination, his shall was found to be of at least twice the usual slickness,—a fact which has been the source of abundant witherous, for the most part fable. A small tensor was also found in his cerebellium: 'a fact of some interest, from that being the portion of the brain in which he had placed the organ of antativeness, a proposity which had always been very strongly marked in him.'* I know not in what sense the writer just quoted thinks the fact so remarkable. Tumours in other organs are not usually the indications of increased activity; nor are we accustemed to find great poets with tumours in the organ of 'imagination;' great artists with tumours in the

^{*} The English Cynlopedia, vol. itin, der. Gall.

perceptive region; great philanthropists with tumours on the frontal arch; great robels with tumours behind their ears."

§ II. Gala's Hisponical Position.

The day for ridiculing Gall has gone by. Every impartial competent thinker, whether accepting or rejecting Phrenology, is aware of the immense services Gall has rendered to Physiology and Psychology, both by his valuable discoveries, and hy his bold, if questiouzhle, hypotheses. He revolutiouized Physiology by his method of dissecting the brain, and by his hold assignment of definite functions to definite organs. To serify or refute his hypotheses, rust researches were undertaken; the nervous system of minute was explored with new and passionate real; and now there is no physiologist who openly denies that mental phenomena are directly connected with nervous structure; while even Metaphysicisms are beginning to understand the mechanism of the Senses, and the general laws of nervous action. The time has serioed in which it seems almost as absurd to theorize on mental phenomena in defiance of physiological laws, as it would be to adopt Stahl's advice, and consider anatomical and cheroical resourches futile in the study of Medicine. We owe this mainly to the influence of Gall. He list brought into requisite prominence the principle of the necessary relation between organ and function. Others had proclaimed the principle incidentally; he made it parameent by constant illustration, by showing it in detail, by tenching that every variation in the organ must accessarily bring about a corresponding variation in the function. He did not say mind was the product of organization; 'Nous ne confondons pas les conditions avec les cames efficientes;' all he asserted was the correspondence between the state of the organand its manifestations.† This was at once to call the attention of Europe to the margellons apparatus of organs, which had previously

^{*} To anticipate the reply that the existence of disease in the organ would provoke unusual activity of the organ, it is only necessary to state that Gall's 'prepensity' is not said to have been called into unusual activity shortly before his death, but to have always been very active. Had three been a rangel connection between the disease and the activity, increase of the activity would have followed the rapid progress of the disease.

[†] So the Sparchess says: Both Dr. Gell and I have always declared that we morely observe the affective and intellectual munifestations, and the organic conditions under which they take place; and that in using the word organs we only mean the organic parts by means of which the faralties of the mind because apparent, but not that these constitute the mind. — Physiology, p. 16.

been so little studied, except from a purely anatomical point of view, that no one, until Sömmerring (who was Gall's contemporary), had observed the relation between size of the brain and intellectual power, as a tolerably constant fact in the animal kingdom. This one detail is sufficient to make every reader suspect the chaotic conductor of physiological Psychology when Gall appeared.

Nor has Gall's influence been less remarkable in the purely psychological direction. People are little aware how that influence is diffused, even through the writings of the opponents of Phrenology, and has percolated down to the most ordinary intelligences. 'Ni les vains efforts d'un despotance énergique,' says Auguste Counte, secondés par la hontenue condescendance de quelques sarans fort acerélatés, ni les sareasmes éphémères de l'esprit littéraire et métaphysique, ni nobne la frivole irrationalité de la plupart des essais tentés par les imitateurs de Gall, n'ont pa empécher pendant les trente dernières années l'accroissement rapide et contain, dans toutes les parties du monde savant, du neuveux système d'études de l'homme intellectual et monde. A quels autres signes voudrait on reconnaître le succès progressif d'une heureuse révolution philosophique?'*

Gall may be said to have definitively settled the dispute between the partisans of innate ideas and the partisans of Seasationalism, by establishing the commute tendencies, both affective and intellectual, which belong to the organic structure of man. Two psychological. facts, familiar from all time to the ordinary understanding, but shrouded from all time in the perplexities of philosophy, were by Gall made the basis of a doctrine. The first of those facts is, that all the fundamental fendencies are commite, and can no more becreated by precept and education than they can be abolished by denunciation and punishment. The second fact is, that man's tarious faculties are essentially distinct and independent, although intimately connected with each other. What followed? That the Mind consists of a plurality of functions, consequently must have a plurality of organs, became the necessary corollary of this second proposition, as soon as the relation between organ and function was stendily conceived.

These two propositions have entered into the body of all European doctrines, although the corollary from the second is still vehemently disputed by many. No man of any intellectual eminence would now repeat Johnson's celebrated assertion of the poetic faculty being

^{*} Cours de Philos. Position, in. 700.

simply intellectual activity in a special direction, whereby Newton might have written Othells, and Shakspeare the Principle, had either of these great men set themselves the task. 'Sir, a man can walk as far cast as he can walk west,' was thought a conclusive illustration; which indeed it was, when the 'misty' of the faculties found no contradiction; but which no one would now accept as more than a full scious analogy.

Another conception systematized by Gall has also possed into geueral acceptance, namely, the pre-eminence of the affective faculties over the intellectual; and the subdivision of the affective faculties into propensities and sentiments, and of the intellectual faculties into perceptives and reflectives; thus marking the progress is devetopment from the individual to the special, from the sensions to the intellectual, which constitutes the great progress of civilization in the triumph of sociality over animality.

§ III. CRAYIOSCOPY.

Phrenology has two distinct supects. It is a distrine of Psychology, and it is an Art of reading character. The scientific doctrine is based on the physiology of the servous system, to which is added psychological analysis and classification. The Art is based on empirical observation of onincidences between certain configurations of the skull and certain mental phenomena. This latter is truly Cranioscopy, and is no more entitled to the name of a science, than are Physiogromy or Cheironomy; a point which Gall's successors have, with scurredy an exception, rutirely proriooked. When therefore the physioalogists with much couplinis declare their system to be a system of facts' and colservations/ which claim our confidence becomes they are facts and not ' wiere theories," it is absolutely neecoury that we should accurately discriminate in what stuse those said facts are to be undenstood; because according to that seuse will be the kind of confidence they will claim. If, for instance, they are presented purely as empirical facts - the observed coincidences between certain cranial appearances and corresponding mental manifestations-we may thankfully accept them as valuable materials, Abundance of such material flors exist; no one negociated, even superficially, with physiological writings will deny it. But without desiring to lessen the value of these facts by rigorous criticism of the cridence on which they rest, we may, may more, we must, if our inquiry be regulated by scientific precision, treat them as we treat

all other contrical facts, namely, hold them as mere sign-posts, until they be proved assessed, and until they be bound together by some ascertained law. Now it will scarcely be denied that the observed correspondences between special emaild configuration and mental peculiarities, do, in many instances, fail. Large beads not sometimes observed in connection with very mediscre abilities; small heads, on the contrary, with very splendid abilities; purticular 'organs' do not always justify their prominence by the presence of the particular ! faculties! which they are said to indicate. I wish rather to understate than overstate the difficulty, and I will not seek to gain any advantage by multiplying exceptions; it is enough for the present argument if any exceptions have been observed; became any exception to an empirical generalization is fatal to it or an empinical generalization, and can only be set aside when the generalization has ceased to be empirical, and has become scientific. Thus, I am aware that phrenologists explain each exception to their perfect satisfaction. But, in explaining it, they got the sphere of empirical observation to enter that of science; and thus their explanation itself has only the validity which can be given it by theory. To make my menning more definite, let us suppose that the conjerical generalization of large chests being the came of great immediar power, is under discussion. As an observed fact-an empirical fact-the correspondence of broad classis and museriar strength, is a valuable addition to our empirical knowledge. Taken as an indication, no one disputes the fact; but taken us a cause, and connected with a physiological theory, it bears quite a different value. The physiolight may say that the fact proves brealth of chest to admit of more perfect oxygenation of the blood, and thus causes greater tauscular power. Against such a throny we bring the fact that no absolute and constant relation between broad chests and maseular power exists) if we find large chests accompanying strength, we also find small cleans in certain lithe, wiry frames accompanying even greater. strength; the empirical generalization is thus destroyed, the explanation is shown to be imperfect, and the ratio of muscular power is shown to depend on some other condition besides the oxygenation of the blood.

When phresiologists explain away the exceptions to their emperical facts, they are on the field of pure science, and their explainations can only have value in proportion to the validity of the scientific principles invoked; and thus the Art of Cranioscopy is perpetually forced to recur to that very Physiology which the succrosors of Gall bare so mayisely neglected, and of which (because it referses its and?) they often speak so contemptuously. The fact of a large head with a small mental capacity, or of a small head with a great mental capacity, is explained by them as resulting from the difference in the 'temperaments' of the two. But have they discriminated the conditions thus vaguely indicated by the word temperament? Have they estimated the proportions in which the temperaments are mingled? Have they discovered a means of valuation by which the exact influence of each temperament can be estimated? They have not even made the attempt.

And yet that such a valuation is indispensable to the scientific precision of their results, must be evident to every one. What, strictly speaking, is this 'temperament,' which acts as a disturbing force in the calculation? I believe that seignee will one day show that it is the result of that law of indeterminate composition which distinguishes living tissue from all other substances. Inorganie bodies combine according to the law of determinate composition; the proportions of the constituent elements are fixed, definite, invariable. In water we invariably find 88-9 of oxygen, and 11-1 of budrogen, in every 100 parts; never more, never less; let the water be dew, min, snow, or artificially produced in the laboratory, its composition is always determinate, even to the fraction. In any piece of first every 100 parts will be composed of 48:2 of officen and 51-8 of eavgen; never more, never less. But this is not the case with organic substances (those at least which we were tured to distinguish as telegropanic substances), which are indeterminate in composition. Elementary analyses do not yield constant results, as do the analyses of inorganic substances. Nerve-tissue, for example, contains both phosphorus and water, as constituent elements; but the quantity of these elements review within certain limits; some nerve-tissues have more phosphorus; some more water; and according to these variations in the composition will he the variations in the nervous force evolved. This is the reason why brains differ so enormously even when their relumes are sound. The beain differs at different ages, and in different individuals.

^{*} Matter is decided into Incorporate and Organic; in 1833 I proposed a modification of this division into—1. Accorpose: 2. Mercegonic; and it Teleorganic; the first including those usually styled incorposic; the according those usually styled incorposic; the according those entertaines in an intermediate state, either masting some addition to become firing, or lasting last some elements, and passed from the rital state into that of product; the third invitating only the truly rural substances.

Susetimes water constitutes three-fourths of the whole weight, sometimes four-fifths, and sometimes even seven-eighths. The phosphorus varies from 0/80 to 1/63, and 1/80; the cerebral fat varies from 3:45 to 5:30, and even 0:10. These facts will help to explain many of the striking exceptions to phrenological observatious (such, for example, as the manifest superiority of some small brains over some large brains), and are, indeed, included within the comprehensive formula constantly advanced by phrenologists that ' size is a measure of power, other things being equal." In this formula there is a truth, and an equivoque. The truth may be passed over by us, as claiming instantaneous assent. The equivoyee must arrest us. Phrenologists forget that here 'the other things' never are equal; and consequently their dictum ' size is a measure of power,' is without application. There never is equality in the things compared, because two brains exactly similar in size, and external configuration, will preverheless differ in elementary composition. The difference may be slight, but however slight, it materially affects the result. The difference of elementary composition brings with it a difference in sevelspanear, and by derelopment, I do not mean growth, but differentiation." Parallel with these differences, not appreciable by any means in the placesologist's power, there are psychological differences, resulting from the effect of education. So that to say 'size is the measure of power,' is as vague as to say 'age is the measure of wisdom;' became, although it is true that size is an index of power, and, other things being opini, the greater the besin the greater the mental power, it is equally true, that age and experience in minds of equal tapacity will produce proportionate wisdom; unfortunately we cannot get minds of equal capacity placed under the same conditions ; and thus it happens that we find some men with large brains inferior to others with much smaller broins, and men of patriarchal length of years more unwise than their nephrys.

And, in a less degree, this is true of size, taken as the measure of power, between one organ and another in the same brain. Failing atterly when two different brains are compared, the indication of size will be no more than appraximative when two parts of the same brain are compared; although in this case the other things are necessarily more nearly equal: it is the same nerve-tissue, the

^{*} These explained at some length, the relation of growth and development in an article as. Benny's and Girafa, in France's Magazine for August and September, 1856.

same temperament we are dealing with. In a given train, therefore, we may reasonably expect to find that may one organ which is larger in size than another, will be more posterful in function, But although this, as an emporical generalization, is a rainable indication, it is by no means certain, because there may be, and indeed usually is, a difficulty thrown in the way by the inappreciable vet potent differences of development which have taken place. Differentiations occur in two directions, in elementary composition and in morphological development. One brain may have more phosphorus than another; and in the same brain one organ may be more vesicular or more fibrous than mother. Thus it by no means follows that a man with reflective organs large in size, shall have so exercised these organs as to have brought their development into proportional advance; while on the other hand his smaller imaginative organs may have been as developed by culture and exercise, as to have placed them on a par in efficiency with the reflectives. Daily experience assures us that such is the case; and the philosophic phrenologist might point to it as one explanation of the many exceptions which Cranioscopy must uncosmily specunity in its attempt to read character according to external indications.

This is not the place for an examination of Parenology as an Art, or as a Science. I content myself therefore with the form going indication of what I believe to be the true position of Cramescopy, and some of the difficulties which beset it. That the rollection of observed correspondences between certain configurations of the skull and certain mental characteristics, is a northy task, and one which must materially aid the science of Psychology, I do not think would be denied by any philosopher, if it were undertaken with that subsidiary nine; but when phrenologists obtrude their 'system' on the notice of philosophers, declaring it to be a completed science of Psychology, and a true method of reading clasractor, they must not be surprised if contradiction meet them on all sides, and if this contradiction often speak the language of contempt; since daily experience cannot sourtion the present pertrasions of the Art, because the Art is found to be constantly at fault; nor can psychologists recognize the pretensions of the Science;

& IV. PHERNOLOGY AS A SCHENCE.

To defend their Art, phrenologists are compelled to recur to their Doctrine, founded on the physiology of the necrous system, and on a psychological elassification of the foculties. Indeed, while on the one hand we find every planuologist since Gall, Spurcheim, and Variout, occupant entirely with Cranioscopy, and many even speaking with disdain of anabomists and physiologists; on the other hand we full their anxious to bring forward physiological and perhalogical endener, whenever that evalence faccurs their views; and we hear them confidently assert that Phremology is the only true Physiology. of the perrous system. This latter assertion I am quite willing to echo, if the terms be somewhat modified, and the phrase run thus ;-*Pluruology aspires to be the true Physiology of the nervous system; when that Physiology is complete. Phrenology will be complete." But for the present we find Physiology confessing its incompleteness. -emfosing itself in its infancy; whereas Phrenology claims to be complete, equipped, full-statured! Rightly considered, that very chim is a conferonation of Phrenology, as at present understood, The pretension of being a perfect se nearly perfect system, surely implies a profound ignorance of the subject, an entire asseonception of the complexity of the problem it pretends to have solved? At a time when Science is unable to solve the problem of three gravitatmg todies, placeologists pretend to find no difficulty in calculating the result of forces so complex as those which constitute obstracter; at a time when the nervous system is confessed, by all who have studied it, to be extremely all-understood, the functions of that systen me supposed to be established; at a time when Physiology is so rapidly advancing that every decade renders most backs antiquated, a Psychology professeally founded on that advancing science remains immerchle!

Gall was on the right path when he entitled his first great work, dustany and Physiology of the Nerrous System.* Has successors have quitted that path. In spite of his emphatic declarations, when he was engaged in his exposition of the austony and physiology of the nervous system, t declarations of the necessity there was always to make the sandy of organ and function go hand to hand, so that he would only have his labours regarded as the basis of an every towards a more perfect work; in spite, we say, of every philosophical consideration, his successors have neglected Physiology for Crimioscopy; not one of them has unde or attempted to make any dis-

^{* &}quot;Quiconque," he erre, "est convaines que la structum des parties du cerreux à un rapport nécessère et insuédiat avec leurs fesetions, trouvers qu'il est indurel de réunir ces deux objets l'un à Tautre, en les considérant et en les tratant connec un seul et méma corps de doctrine. — de et Pipe, pref. ave.

⁺ Compare his Anal. of Phys. du Syst. Serverer, i 16 and 271.

energy or extension of discovery in the direction Gall so successfully opened; and the result of this neglect has been twofold, -first, that since Gall and Spuraheon, Phrenology has not taken a smale step; second, that all the eminent physiologists of Europe who have devoted themselves to the study of the servors system manimoraly reject a theory which does not keep pace with the advance of science. It is very easy for physiologists to disregard the unanimous oppossition of physiologists, and to place this opposition to the account of presidice, or the 'not having aufficiently studied Phrenology ! but an impartial ou-looker sees elearly enough that, making every allowance for prejudice, the opposition rests mainly on the discrepancy between the facts stated by phrenologists and the facts which Science has hitherto registered. Had phrenologists kept themselves. acquainted with what was gradually being discovered by physiologists, they would have seen that something more than prejudice must be at work when all the emineut neurologists, such as Serres, Flourers, Moiendie, Learet, Longet, Libst, Lafargue, Bonilland, Balllarger, Müller, Valentin, and comparative anatomists such as Owen, declare against Phrenology; although every one of these is ready to admit the importance of Gall's method of dissection, ready to incorporate whatever results Gall arrived at, which can be in any way confirmed. I do not blame placentlogists for having rendered no assistance to Physiology by their own labours; but I am forced to point out the historical consequences of their having neglected to follow the path commenced by Gall, and deviated into that of simple Cranioscopy. The neglect of which they complain, is entirely owing to their presenting a rule sketch as a perfect science, and to their keeping behind the science of their day, instead of on a level with it. Imputient of contradiction, they shut their eyes to difficulties; unable to accommodate their principles to the principles of Physiology, they contemptuously dismiss objections as 'merely theoretical,' and fall back upon their 'well-established facts.'

Gall undertook a gigantic task. He produced a revolution, and his name will always live in the history of Science. It is tille to attempt to undervalue his work by citing his predecessors. Others before him had thought of localizing the different faculties in different parts of the brain. He and Spurzheim have mentioned such predecessors.* These, however, are very vague unfertile concep-

^{*} Functions du Cerrenn, ii. 390 ag. Compare also Lellui : Rejet de l'Organislope, p. 21 ag., and Prochasin, p. 374 ag.

tions; they in no way lesson Gall's originality. A neaver approach is to be read in Prochaska, whom Gall often meatings, although he does not, I think, mention this particular anticipation. It is the third section of chapter few, and is entitled, 'Do each of the disssions of the intellect occupy a separate portion of the Brain?" and it concludes thus I 'It as by no means improbable that each division of the intellect has its allotted organ in the brain, so that there is me for the perceptions, another for the understanding, probably others also for the will and imagination and memory, which act wooderfully in concert and mutually excite each other to action. The organ of immeriation, however, amongst the rest, will be for apart from the organ of perceptions.46 How far this general suppoaition of a 'probability' is from Gall's specific attempt to localize the organs, need not be pointed out. The attempt was far from being fully successful; but, as a tentative, it was truly philosophical, and produced a revolution.

Hasing once conceived the brain to be an apparatus of organs, not a single cogan, the problem was to analyze this apparatus into ax constituent organs, and to assign to each its special function. In this difficult problem Gall, by the necessities of his position as a restem-founder, was forced to proceed on a false method, namely, that of determining the separate organs according to a purely placsiological and superficial analysis, instead of subsoluenting this analysis to mantenical ventication. It is this arbitrary and unsciontific proceeding which has made all anatomists reject the system. What would be have said to a physiologist who, knowing that the liverformed bile and sugar, should have assigned the function of bilefernation to one lobe, and the function of sugar-formation to another labe, no structural differences having been observed." or who should sauge to the different lobules of the kidney functions as different as are assigned to the different convolutions of the beain? It is perfectly true that from inspection of an organ no idea of its finesion can be obtained; and this truth has blinded phrenologists who are not physiologists to the necessity of nevertheless always unking anatomy the lunis of every physiological analysis. No inspection of the alimentary canal could disclose to us that its firme-

^{*} Proclusku, p. 447. There is a remarkable passage, we long for questition large, in Willia's Corober Amsterne, v. v. p. 125, on the exarcistions as trailering intellectual superiority. I give only the opening: "Plan and correctations correte large places as anjone to benine sort quite in questions seemed, nempt propher various of multiplaces families an experience or large."

tion was that of digestion. Nevertheless the function of digestion, except in the crude conception of ordinary men, is only intelligible after a rigorous analysis of the several processes, based, stomachal, and intestinal; for the intelligence of each of which, we must assign to each gland its specific secretion, and to each secretion its specific action; a physiologist who should attempt the explanation of digestion on any other mode would justly be slighted by every good his-logist in Europe. If Phremology is the Physiology of the across system, it must give up Gall's approximative method for a method more rigorously scientific; and, as Auguste Counte justly remarks, phremologists, before they can take rank among men of science, must represente, par one série directe de trasaux anatomiques, l'analyse fondamentale de l'appareil cénébral, on faisant previsoirement n'estraction de toute idée de functions."

One of the fundamental questions which must be answered by this anatomical analysis, is that which up phrenologist condescends to ask, namely. Are the convolutions the sent of intelligence? in other words. Is the grey vesicular matter which forms the surface of the brain, the sole and specific stat of those changes on which all mental phenomena depend? This is a question which Crantoscopy may ignore, since the facts on which Cranioscopy is founded are little if at all affected by it. To Phrenology the question is initial, all-important; because if the 'Physiology of the nervous system' should turn out defective in its basis, the whole scuffolding will have to be erected anew. I put the question in two forms, because although it is commonly said that the convolutions of the brain form the organs, yet as many animals are altogether without convolutions, the vesicular surface, whether convoluted or not, must be understood as the sent of mental changes; the convolutions being only a mode of increasing the nurface.

As the space at my disposal is inadequate to any exhaustive discussion of this insportant question, the reader will be satisfied with a brief indication of the doubt which Physiology forces me to express respecting the convolutions as the specific seat of mental manifestations. I cannot reconcile the current opinion on that subject with matterial and sociogical facts. I before that the resicular matter which constitutes the correlations, is only one factor in the sum; it would however lead me too far to enter on the discussion, which might be objected to as at present only hypothetical.

^{*} Grove de Printespalie Printespalie SSI. Courte in much more incorrable to Gell their I am, yet use his remarks on the scaliplication of the families, p. 823 ap.

Quitting all hypothetical considerations for the less questionable evidence of facts, I find M. Baillarger"-who invented a new methed of measuring the surfaces of brains, by dissecting out all the white substance from their interior, and then unfolding the exterior, and taking a cost of it-declaring from his measurements that it is for from true that in general the intelligence of different animals is in direct proportion to their respective extents of occobral surface. If their absolute extents of surface be taken, the rule is manifestly entrue in many instances; and it is not more true if the extent of surface in proportion to the volume of the brain be regarded; for the limited beautifus less superficial extent in proportion to its votime than that of many inferior mammalia; its volume is 24 times 20 great in proportion to its surface; as it is in the rabbit, for exmorale,

Nor is this all. The researches of M. Camille Dareste+ establish beyond dispute that the number and depth of the convolutions bear so direct relation to the development of intelligence; whereas they do bear a direct relation to the size of the animal; so that, given the size of the animal in any genus, he can predict the degree of consoluted development; or given the consolutions, he can predict the size | "Inutes les espèces à cerveur lisse out une petite taille ; toutes les espèces à circonvolutions nombreuses et compliquées sont, an contraire, de gran detaille." Purther, I am informed by Profrom Own that the grampus has convolutions deeper and more complicated than those of man. From all which facts it becomes erident that the physiological basis is so far from being in accordmee with the present state of our knowledge of the nervous system as to require complete revision.

Purenclogy has another suportant point to determine, namely, the relation of the size of the brain to mental power. Is the size of the beain to be taken absolutely, and its functional activity in the purely mental direction to be measured by its absolute bulk? A galeanic battery of fifty plates is five times as powerful as a buttery of ten plates; a cord of twenty threads is five times as strong as a cord of four threads, other things equal; and, in like manner, we should expect that a brain of fifty ounces would be twice as powerfal as one of twenty, ave cunces (the limits are really greater than those). Nevertheless, we find no such absolute and constant rela-

† Annaha des Sciences Networkler, Prairie, vol. 3), and 4' série, 1, 73.

^{*} Gandto Middenle, 19 April, 1845. Paget: Report on the Propests of Analogy in British and Foreign Med. Rev. July, 1840.

tion between size and mental power is would justify the phrenological position; the weight of the human brain being about there pounds; the weight of the whale's brain being five pounds; the weight of the elephant's between eight and ten pounds. If therefore the function of the brain be solely or mainly that of mental manifestation, and if use be the measure of power, the whale and the elephant ought to surpass man, as a Newton surpasses an idios. If on the contrary the brain, as a nervous centre, has after functions besides that of mental manifestation, these discrepancies can be explained, although Parenology most take those other functions into account,*

It is true that phrenologists have been aware of those discrepancies; and, comble to admit the whale and eleplant as superior to man, they have met the objection by saving the size must be estitested relatively, not absolutely. Compared with the weight of his body, the brain of man is certainly heavier than the brains of most animals, including the whale and the elephant; and this fact seems to restore Phrenology to its elegerfulness on the subject; but the fact does not hold good of mankors, the smaller ages, many species of hirds, and some redents. This is the dilesums; either the ratio of mental power depends on the absolute size of the brain, and in this case the elephant will be thrice as intelligent as man; or it depends on relative size of the brain compared with the body, and in this case man will be less intelligent than a monkey or a rat, although more intelligent than the elephant. Moreover, if relative size is the basis taken, phrenologists would be bound to compare in each case the weight of the brain with the weight of the body, before they could establish a conclusion; and this is obviously inpracticable. I have stated the dilemma; but having stated it, I will add that although phresologists attack importance to questions of weight of the brain, there seems to me a great fallowy involved in such estimates. Intelligence is not to be measured by the bahance. Weight is no lades of receival activity, nor of the special directions of the activity.

Enough has been said to show that Phrenelogy, so far from at present being the only true physiological explanation of the nervous system, is in so obtains and anotable a position with respect to its basis, as to need therough revision; and until some physiologist

I have shoulded the relations of the boars to the body in the paper intege referred to on Descript and Girech. See France May, Sept. 1850, p. 280.

shall arise who, following up the impulsion given by Gall, can once more place the dectrine on a level with the science of the age, all men of science must be expected to slight the pretensions of Physnology as a psychological system, whatever it may hereafter become. That a new Gall will some day arise I have little doubt, for I am convinced that Psychology must be established on a physiological basis. Meanwhile, for the purposes of this History, it suffices to have indicated the nature of Gall's imposition, and the course of inquiry he opened. As a psychological classification, the one now adopted in Phrenology can only be regarded in the light of a tentative sketch; superior indeed to those which preceded it, but one which daily experience shows to be insufficient.

To conclude this chapter, we may point to Gall as having formed an epoch in the History of Philosophy by imaginating a new Method. From the time when Philosophy itself became reduced to a question of Psychology, in order that a basis might, if possible, be had, the efforts of men were variously directed, and all ended in southerism and dissentisfaction because a true psychological Method did not guide them. The history of the tentatives towards a true Method has been sketched in various chapters of this volume, and with Gall that Method may be said to have finally settled its fundamental principles.

ELEVESTH EPOCH.

PHILOSOPHY FINALLY BELINQUISHING ITS PLACE. IN FAVOUR OF POSITIVE SCIENCE.

CHAPTER I. ECLECTICISM.

NOUS no croyons pas les choses purce qu'elles sont vraies,' says
Pascal, 'mais nous les croyons vraies paren que nous les ais
mons.' This is one eyer-present electracle to the progress of mankind.
We do not love Truth because it is true, but because it seems to
countemmee other opinions which we believe necessary to our wellbeing. Only a few philosophic minds have strength enough to detach their eyes from consequences, and concentrate all their attention on Truth; and these few can only do so in virtue of their
steadfast consiction that Truth can never be really injurious, whatever phantoms apprehensive ignorance may conjure up around it.

The reaction ugainst the Philosophy of the righteenth century was not a reaction against a doctrine proved to be incompetent, but against a doctrine believed to be the source of frightful immorably. The reaction was vigorous because it was animated by the horror which agitated Europe at the hidrons excesses of the French Reso-Associated in men's minds with the saturnalia of the Terror, the philosophical opinions of Condillac, Differot, and Cabanis were held responsible for the crimes of the Convention; and wint might be true in those opinions was flung aside with what was false, without discrimination, without mulysis, in ferror imperuous disgust. Every spinion which had what was called 'a taint of materislism," or seemed to point in that direction, was denounced as an opinion accessarily leading to the destruction of all Religion, Morality, and Government. Every opinion which seemed to point in the direction of spiritualism was caperly welcomed, promulgated, and landed; not because it was demonstrably true, but because it was supposed engable of preserving social order. And indeed when, looking back upon those times, we contemplate the minery and

amrehy which disgraced what was an inevitable movement, and dismost what was really noble in the movement, we can understand how generous hearts and minds, fluctuating in perplexity, did instinctively revolt not only against the Revolution, but against all the principles which were ever invoked by the revolutionists. Looking at the matter from this distance we can see clearly enough that 'materialism' had really no more to do with the Revolution than Christianity had to do with the hideous scenes in which the Annbaptists were actors; but we can understand how indefible was the association of Revolution and materialism in the minds of that generation.

So profoundly influential has this association been, that a colebrated surgeon of our own day perilled his position by advocating an pointion, now universally accepted, but then generally shuddered at; namely, that the brain is the 'ergan' of the mind. He had to retract that opinion, which the pious Hartley and many others had advanced without offence. He had to retract it, not because it was scientifically unterable, but because it was declared to be mornly dangerous. It was 'materialism,' and materialism 'led' to the destruction of all morality. Although every man now believes the brain to be veritably the organ of the mind, the word materialism is still used as a burbear. Instead of being refuted as false, it is by many denounced as dangerous. I believe the philosophy of the eighteenth century to be dangerous because false; the writers to whom I allude, declare it false because they believe it dangerous. I believe it also to be in many respects healthful, because in many respects true; and it would be memolid in me not to declare that if I oppose the eighteenth century doctrine. Thelieve the spiritualism which denounces it is even more incomplete as a philosophy, and consequently even more dangerous in its influence.

The history of the reaction in France is very instructive, but it would require more space than can here be given adequately to narrate the story.* Four streams of influence converged into one, all starting from the same source, namely, horror at the Revolutionary excesses. The Catholics, with the great Joseph de Maistre and M. de Bouald at their head, appealed to the religious sentiments; the Royalists, with Chateaubriand and Madame de Start,

^{*} The reader may consult on this topic Dumiron, East per l'Histoire de la Philosophie en Pierces ses XIXvine Sécle ; sui Taine, Les Philosophie Français du XIXvine Sécle.

appealed to the measurhical and become sentiments; the metaphysicisms, with Laromigunère and Maine de Biran, and the muralists with Horce-Collard, one and all attacked the weak points of Separitualism, and prepared the way for the cuthusiastic reception of the Scotch and German philosophies. A glance at almost any of these writers will suffice to convince the student that their main purpose is to defend morality and order, which they believe to be necessarily imperilled by the philosophy they attack. The appeals to the projudices and sentiments are abiling. Eloquence is made to supply the deficiencies of argument; emotion takes the place of demonstration. The houser is charmed, reased, shouled. He learns to associate all the nobler sentiments with spiritulistic doctrines, and all grovelling ideas with materialistic days trines; till the one school becomes inseparably linked in his mind with emotions of revernire for whatever is lefty, profound, and noble, and the other with emotions of contempt for whatever is shallow and unworthy. The leaders of the reaction were mora of splendid talents, and their work was eminently successful. But now that the heats of controversy have couled, and all these debates have become bestorreal, we who look at them from a distance can find in them no philosophical progress, no new elements added which ecold assist the registion of Philosophy and form a broader basis for fixture monuments. In political and literary History these attempts would chim a complemen position; in the History of Philosophy they deserve mention only as luxing made mankind aware of the limited nature of the eighteenth century philosophy, and its extraordinary lacence. Their office was critical, and has been fulfilled.

One doctrine, and one alone, emerged from these attempts, and held for some time the position of a school. It made a noise in its day, but even the echoes have now become almost inantible, for a fireher doctrine scarcely ever obtained acquiescence. We must nevertheless bestor a few scatences on it to make our history complete. Exercision is dead, but it produced some good results, if only by the imputus it gave to historical research, and by the confirmation it gave, in its very scalenes, to the conclusion that an it priori solution of transcendental problems is impossible. For Eclesticism was the last product of philosophical speculation, the gathering together of all that philosophers had achieved, and the evolution from these separate achievements of one final doctrine, which final doctrine is itself rejected.

Victor Cousin and Thomas Jouffrey are the shiels of the school, age a brilliant rhetorician unterly destitute of originality, the other a sincere thinker, whose merits have been thrown into the shade by his builtimet colleague. As a man of letters, M. Cossin deserves the respect which attends his tume, if we except the more than questionable use which he has made of the labours of pupils and assistants without acknowledgment. However, our business is not with Cousin; but with Eelecticam. Bover-Collard introduced the principles of the Seotch school, to comfet with them the principles of sepectionalism. Reid and Stewart were translated by Jonffroy, esplaned and developed by Royer-Collard, Jonffroy, and Comin. The talents of these professors, adeal by the tendener towards any reaction, made the Scotch philosophy dominant as France. But Victor Consin's restless activity led him to the study of Kant :and the doctrines of the 'Konigsberg sage' were preached by him with the same ardour as that which he had formerly devoted to the Sentels. As usen as the Parisians began to know something of Kani, M. Comin started off to Alexandria for a doctrine: he found one in Proclus. He edited Proclus; lectured on him; borrowed some of his ideas, and would have set him on the throne of Philosophy, had the public been willing. A trip to Germany in 1824 made him acquainted with the modern Proclus-Hegel. On his return to Panis he presented the public with as much of Hegel's doctrines as he could understand. His relebrated Educticism is nothing but a misconception of Hegel's History of Philosophy, fenced round with several plausible arguments.

All error, M. Consin repeatedly enforces, is nothing but 'an incomplete view of the truth.' Upon this definition is based the proposition that 'All systems are incomplete views of the reality, set up for complete images of the reality.' The conclusion is obvious: 'All systems containing a mixture of truth and error have only to be brought together, and then the error would be eliminated by the mere juxtaposition of system with system. The truth or portion of the truth which is in one system would be assimilated with the portions of the truth which are in other systems; and thus the work would be easy enough.'

Edections, therefore, means the bringing together of all discovered truths eliminated from their accompanying errors; and out of this body of truths a doctrine is to be risborated. A great task; but is it practicable? The system is based on the definition of error; by that it must stand or full. The definition appears to as altogether untenable. Error is assertions an incomplete view of the truth; but it is not oberge: it is sometimes no view of the truth at all, but a more divergence from it. When Newton constructed his theory of the laws of attraction, and interposed an other as the sections through which they operated, he had an incomplete view of the truth. But when Descartes developed his theory of vertices, he was quite wide of the truth—he was altogether wrong. The phrase 'incomplete view' is indeed so vague, that men who sport with verbal subtleties may justify the theory of Descartes as an incomplete view of the truth; a very incomplete view. At any rate no one will be disposed to assert that by the more juxtaposition of Newton's doctrine with that of Descartes he could in any way eliminate the certer that is in both.

If therefore all systems are not incomplete views of the reality, if all systems do not contain certain portions of the truth—how is the colectic to decide a which systems are available for his purpose, which philosophies are to be juxtapased? This leads to the necessity of a criterion. M. Jouffeey tells us that it is an easy matter. We have only to collect all the systems which have ever been produced, have then translated and arranged in their legitanate order, and the truths discovered by each will become organized in one doctrine.

Without stopping to ask what is the legitimate order, and how we are to know it, the student is naturally anxious to learn by what enterium Eductions proposes to judge and separate truth from error in any system. The inquiry is pertinent. It is easy to hid us be careful in separating the wheat from the chaff, that we may garner it up in the storehouses of the world. Suppose the farmer does not know the wheat when he aces it, what enterium do you give him whereby he may judge wheat to be wheat, not chaff? None. The philosopher can only distinguish the truth in two ways; rither he knows it already, and then he has what he is seeking; or else he knows it by its relation to and accordance with those truths which he is already in possession of. That is to say, he has a criterium in his System: those siews which range under it, he accepts as extensions of his knowledge; those which range beyond its limits he denies to be true.

Suppose the celerate places in juxtaposition the two great schools which have always divided the world, viz. that which declares experience to be the source of all knowledge; and that which declares we have a great deal of our knowledge antecedent to and independeat of experience. Both of these systems he pronounces to be composed of truth and error. He assumes this; for a little consideration might tell him that it is atterly impossible both should be correct experience either is or is not the sole fountain of knowledge. The difference is as decided as that respecting the motion of the earth, or the motion of the sun. Ptolemy and Copernious : choose between them; any compromise is impossible, unless you wish to side with the Sizar who, when the question was put, 'Does the earth move round the sun, or the sun round the earth? replied, Sometimes one and sometimes the other.' He was an eclectic apparently. Let us however for a moment grant that the two schools of Psychology are both partly right and partly wrong , we then ask, What criterium has the edectic whereby to distinguish error from truth? He has none; the doctors are silent on the point.

That men derive assistance from others, and that those who went before us discovered many truths, all admit. And there can be no doubt that a juxtaposition and comparison of various doctrines would be of service. Eclecticism, therefore, as a autoiding process is valuable; and has always been practised. M. Comin however converts this subsidiary process into a primary one, and dignifies it with the attributes of a Method. In the one sense it is simply that the inquirer consults the works of his producessors, and selects from them all that he considers true; viz. such portions as confirm, extend, and illustrate his previous opinious; these opinions constituting his criterium. Let the reader reflect on the pertinacity with which men refuse to admit views which to others are selfevident, because those views are or seem to be opposed to religion, or the reigning doctrine, and he will clearly enough see the nature of this enterium. The history of opinion is emwiled with instances of it. M. Consin however does not so understand Eclecticism. Hesays we should admit all systems as containing some truths, and these truths separate themselves from errors by the mere process of juxtaposition, somewhat in the manner, we presume, of chemical affinities.- A theory that useds, one would think, no further refutation than a simple statement of its principles.

Having dismissed Eelecticism as a Method, we need not waste time in examining M. Cousin's various and constantly shifting opinious. It is enough that he binned has relinquished them. It is enough that France and Europe reject them. This final dectrine then fares no better than the doctrines which preceded it. Philosophy is still in search of its Method and its basis; and wearied out by so many fruitless efforts, it finally gives up the quest, and allows itself to be absorbed by Science. The dogmetic assertion of this position is to be found in Auguste Comte.

CHAPTER II.

AUGUSTE COMTE.

A S I have devoted a whole volume to the exposition of Comte's philosophy,* it will be unnecessary to enter into a detailed exposition here; and the small space at disposal may be occupied with a general indication of his historical position and the anture of his Method.

In the course of this History one fact has been gradually assoming more and more distinctness, as the various failures to establish any solid basis for Philosophy have been brought before us, namely, that mankind has, from the origin of speculative inquiry, been pursuing a false Method. Gradually, as men because aware of this fact, they withdrew themselves more and more from Philosophy, and devoted their speculative energy to Science. Even those who, reductant to relinquish the high aims of Philosophy, tried by changes of direction to discover new and more prosperous issues, and hoped in re-investigating the nature of human knowledge to disclose some yet unsuspected path which might lead them to the goal, found Psychology itself forced to range beside the positive sciences, and to adopt the one Method which hitlarto had alone been fruitful in results. And while from all directions a comercence towards Science was silently taking place, there areas a powerful thinker who proclaimed the inherent accessity of this convergence, and the necessity under which Philosophy now was of definitively relinquishing its nucleut claims in favour of the positive Method, which could lead men to a general doctrine such as might once more establish larmous in their endeavours, and gine to Europe an invigorating faith.

In the Coars de Philosophie Positive, 6 vols., 1830-42, Auguste Comte did for the nineteenth century what Baron did for the seven-teenth: he researed in one vast work the various reforming tendencies of preceding ages. Whoever costs his glance at the present

Chant's Philosophy of the Secures; 1853 (Baka's Securific Library, vol. 20).

intellectual state of Europe, will perceive a great want of saity, caused by the absence of any one doctrine, general enough to embrace every earliety of ideas, and positive enough to carry with it irresistible conviction. Look at the state of Religion :- Catholicism and Protestantism make one great division; but within the subere of each we see numerous subdivisions; the variety of sects is daily increasing. Each Religion has remarkable men amongst its members; but each refuses to admit the doctrines of the others. There is, in fact, no one general doctrine equable of embracing Catholine, Protestants, Malometans, and their subdivisions. Look also at the state of Philosophy. There is no one system universally accepted; there are as many philosophies as there are speculative nations, almost as many as there are professors. The dogmas of Germany are held in England and Scotland as the dreams of alchemists; the Psychology of Scotland is laughed at in Germany, and neglected in Enga land and France. Besides this general dissiftence, we see, in France and Germany at least, great opposition between Religion and Plalosophy openly pronounced. This opposition is inevitable: it lies in the very nature of Philosophy; and although, now as heretofore, many professors eaperly argue that the two are perfectly compatible and accordant, the discordance is, and always must be apparent,

With respect to general doctrines, then, we find the state of Europe to be this: religious opposed to religious; philosophies opposed to philosophies; and Religion and Philosophy at war with

each other. Such is the anarchy to the higher regions.

In the positive sciences there is less dissidence, but there is the sense absence of any general doctrine; cuch science is on a firm book, and rapidly improves; but a Philosophy of Science is nowhere to be found except in the work of M. Auguste Counte, which comes forward with the express purpose of supplying the deficiency. The speciality of most scientific men, and their incapacity of either producing or accepting general ideas, has larg been a matter of complaint; and this has been one great cause of the continuouse of Philosophy; for men of speculative ability new clearly enough that however exact each science might be in itself, it could only form a part of Philosophy. Moreover the evil of speciality is not confined to neglecting the whole for the sake of the parts; it affects the very highest condition of Science, amonty, its equability of instructing and directing society.

In the early ages of speculation, general views were experly sought and easily obtained. As Science because eich and complex in ma-

terials, various divisions took place; and one man cultivated one science, another was another. Even then general views were not absent. But as the tide rolled on discovery succeeding discovery, and new tracts of impriey leading to east wildernesses of undiscoweed truth, it became necessary for one man to devote himself only to a small fraction of a science, which he pursued, leaving to others the task of bringing his researches under their general head. Such a minute division of labour was necessary for the successful proseention of minute and laborious researches; but it ended in making men of science regard only the individual parts of science; the construction of general doctrines was left to philosophers. A fatal error) for such doctrines could only be truly constructed out of the materials of Science and upon the Method of Science; whereas the philosophers were ignorant of Science-or only superficially acquainted with it-and despised the Method. The Natur-Philosophie of Schelling and Hegel is a sufficiently striking example of the results of such a procedure.

We come then to this conclusion: in the present state of things the speculative domain is composed of two very different portions, —general ideas and positive sciences. The general ideas are powerless because they are not general. The new Philosophy which, under the title of Positise, M. Comte proposes to create—and the hasis of which he has himself laid—is destined to put an end to this searchy, by presenting a doctrine which is positive, because elaborated from the sciences, and yet possessing all the desired generality of metaphysical dectrines, without possessing their vagueness, instability, and impuliesbility.

Besides this general aim of the new 'Great Instauration,' we have to notice three initial conceptions which Comte advances, two of which relate to Method, and one to History.

The first is the conception of Philosophy, which, in its widest sense, is identical with Science; consequently one Method must be followed in all investigations, whether the investigations relate to Physics, to Psychology, to Ethics, or to Politics. Every special science, no matter what its subject-matter, is but a branch of the one Positive Philosophy.

The second conception is that of Classification, whereby all the special sciences will assume their proper place in the hierarchy of Science, the simpler being studied first, and thus becoming instruments for the better prosecution of those which succeed. Thus Mathematics becomes the instrument of Astronomy and Physics; Chambury becomes the instrument of Biology; and Biology becomes the instrument of Sociology.

The third conception is that of the fundamental law of evolution, This consequent sets forth that Humanity has three stages, the Theological, the Metaphysical, and the Positive. Whether we examine the history of notions, of individuals, or of special sciences, we find that speculation always commences with supernatural explanations, advances to metaphysical explanations, and finally reposes in positive explanations. The first is the necessary point of departmental by human satelligence; the second is merely a stage of transition from the separatural to the positive; and the third is the fixed and definite condition in which knowledge is alone capable of progressive development.

In the Theological stage, the mind regards all efforts as the productions of superantural agents, whose intervention is the cover of all the apparent anomalies and irregularities. Nature is unimated by supernatural beings. Every unusual phenomenon is a sign of the pleasure or displeasure of some being adored and propriated as a God. The lowest condition of this stage is that of the surages, via Estishion. The logicon condition is when one being is substi-

tuted for many, as the cause of all plenomens.

In the Metaphysical stage, which is only a modification of the former, but which is important as a transitional stage, the supernatural agents give place to abstract forces (personaled abstractions) supposed to inhere in the various substances, and capable themselves of regendering phenomena. The highest condition of this stage is when all these forces are brought under one general force named Nature.

In the Positive stage, the mind, continued of the futility of all inquiry into causes and executes, applies study to the observation and classification of loses which regulate effects; that is to say, the invariable relations of succession and similitude which all things bear to each other. The highest condition of this stage would be, to be able to represent all phenomena as the various particulars of one general view.

Thus, in Astronomy we may trace the gradual evolution from Apollo and his chariot, through the Pythagorean ideas of Numbers, Harmonics, and so many other metaphysical abstractions, to the from basis on which it is now settled; the law of gravitation. So that it is by geometry and dynamics we hope to wrest their accret from the spheres; not by the propinition of a Sun-god. Thus also in Physics, where thunder was the intervention of Jose, and where Metaphysics had introduced Nature's "horror of a void," Science seeks the laws of gravitation, electricity, light, etc.

In the work already mentioned I have illustrated this law in mony wars. The reader is advised however to seek in Comte's pera columns for a complete verification of the law, and its importance in all historical inquiry.* A few sentences will suffice to indicate the nature of the three stages; - All are agreed, in these days, that real knowledge must be founded on the obserration of facts. But no science could have its origin in simple observation; for if, on the one hand, all positive theories must be founded on observation, so, on the other, it is equally necessary to lave some sort of theory before we address ourselves to the task of steady observation. If, in contemplating phenomena, we do not connect them with some principle, it would not only be impossible for us to combine our isolated observations, and comesquently to draw any benefit from them; but we should also be unable even to retain them, and most frequently the important facts would remain unperceived. We are consequently forced to theorize. A theory is necessary to observation, and a correct theory to correct phyrration.

This double necessity imposed upon the mind—of observation for the formation of a theory, and of a theory for the practice of obsersation—would have caused it to move in a circle, if nature had not fortunately provided an outlet in the spontaneous activity of the mind. This activity rauses it to begin by assuming a cause, which it weks out of nature, i.e. a supernatural cause. As man is conscious that he acts according as he wills, so he naturally concludes that everything acts in accordince with some superior will. Hence Fetishism, which is nothing but the endowment of inanimate things with life and volition. This is the logical necessity for the supermitural stage; the mind commissers with the unknowable; it has first to learn its impotence, to learn the limits of its range, before it can content itself with the knowable.

The metaphysical stage is equally important as the transitive stage. The sopermatural and positive stages are so widely opposed

^{*} This advice can the same carriy to Silpared now that a translated condensation of the Position Philosophy by Harrist Marriague, has placed the work within reach of English confere.

that they require intermediate notions to bridge over the cluster. In substituting an eatily inerparable from phenomena were produced, the mind became habituated to consider only the phenomena themselves. This was a most important condition. The result was, that the ideas of these metaphysical entities gradually fided, and were lost in the mere abstract names of the phenomena.

The positive stage was now possible. The mind having coased to interpose either supernatural agents or metaphysical entities between the phenomena and their production, attended solely to the phenomena themselves. These it reduced to tons i in other words, it arranged them according to their invariable relations of similarule and succession. The search after essences and causes was renormed. The pretrusion to absolute knowledge was set aside. The discovery of laws became the great object of mankind.

Bemember that although every branch of knowledge most pass through these three stages, in obedience to the law of evolution, percepticless the progress is not strictly chronological. Some scicases are more rapid in their evalution than others; some individuals pass through those evolutions more quickly than others; so also of nations. The present intellectual anarchy results from that difference; some sciences being in the positive, some in the supernatural, and some in the metaphysical stage; and this is further to he subdivided into individual differences; for in a science which, on the whole, may fairly be admitted as being positive, there will be found some cultivators still in the metaphysical stage. Astronomy is now in so positive a condition, that we need nothing but the laws. of dynamics and gravitation to raplain all celestial phenomena; and this explanation we know to be correct, as for as anything can be known, became we can predict the return of a court with the accest accuracy, or can enable the mariner to discover his latitude and find his way amidst the "waste of waters." This is a positive science. But so far is meteorology from such a condition, that prayers for dry or rawy weather are still offered up in churches; whereas if once the form of these phenomena were traced, there would no more be prayers for rain than for the sun to rise at midnight. Remark also, that while in the present day no natural philosopher is movise anough to havy himself with the attempt to discover the cause of attraction, thousands are busy in the attempt to discover the cause of life and the exerce of mind. This difference characterizes positive and metaphysical sciences. The one is content with a general

feet, that 'attraction is directly as the rams and inversely as the square of the distance;' this being sufficient for all scientific purposes, because coulding us to predict with unerving containty the results of that operation. The metaphysician or metaphysical physiologist, on the contrary, is more occupied with governing at the rames of life, than in observing and classifying vital phenomena with a view to detect their laws of operation. First be guesses it to be what he calls a 'vital principle'—a mysterious entity residing in the frame, and capable of engradering phenomena. He then proceeds to guess at the nature or escence of this principle, and pronounces it 'electricity,' or 'nervous fluid,' or 'chemical affinity.' Thus he hesps hypothesis upon hypothesis, and clouds the subject from his view.

The more closely we examine the present condition of the scirnces, the more we shall be struck with the anarchy above indicated. We shall find one science (Physics) in a perfectly positive stage, another (Biology) in the metaphysical stage, a third (Sociology) in the supernatural stage. Nor is this all. The same varieties will be found to co-exist in the same individual mind. The same man who in Physics may be said to have arrived at the positive stage, and recognizes no other object of inquiry than the fores of phenomena, will be found still a slave to the metaphysical stage in Biology, and endeavouring to detect the sense of life; and so little enancipated from the supernatural stage in Sociology, that if you talk to him of the passibility of a science of history, or a social science, he will knight at you as a "theorizer." The present rendition of Science, therefore, exhibits three Methods instead of one; hence the anarchy. To remedy the evil all differences neast crase: one Method must preside. Auguste Comte was the first to point out the fact, and to suggest the cure; and it will render his name immortal. So long as the supernatural explanation of phenomena was universally accepted, so long was there unity of thought, because one general principle was applied to all facts. The same may be said of the metaphysical stage, though in a less degree, because it was never universally accepted; it was in advance of the supernatural, but before it could attain universal recognition. the positive stage had already begun. When the positive Method is universally accepted-and the day we hope is not far distant, at least among the citie of humanity-then shall we again have unity of thought, then shall we again have one general doctrine, powerful because general. That the positive Method is the only Method

adapted to human capacity, the only one on which truth can be found, is easily proved; on it alone can previous of phenomena depend. Prevision is the characteristic and the test of knowledge. If we can predict certain results and if they occur as we predicted, then are we assured that our knowledge is convet. If the wind blows according to the will of Horeas, we may, indeed, pespitiate his favour, but we cannot calculate upon it. We can have so certain knowledge whether the wind will blow or not. If, on the other hand, it is subject to laws, like everything else, once discover these laws, and men will predict concerning it as they predict concerning other matters. ' Even the wind and rain,' to use the language of one of our clearest writers, ! which in common speech are the types of uncertainty and change, obey laws as fixed as those of the sun and moon; and already, as regards many parts of the earth, man can foretell them without fear of being deceived. He plans his voyages to suit the coming monsoous, and prepares against the floods of the miny season," If one other argument be reeded, we would simply refer to the gradual and progressive improvement which has always taken place in every department of inquiry conducted upon the positive Method-and with a success in exact proportion to its rigorous employment of that Method-contrasted with the circular movement of Philosophy, which is just as for from a solution of any one of its problems as it was five thousand years ago; the only truths that it can be said to have acquired are a few psychological truths, and these it owes to the positive Method. So little has the Philosophy of Science been studied, that Comte's admirable obssification of the fundamental sciences has not only been regarded as a munity ingenious speculation, but many writers have said that it was not different from other classifications which had been proposed, among which Hegel's has been mentioned. But the resemblance is only superficial. A few sentences must suffice here to indicate the principle on which it is based .- The problem to be solved is the dependence of the sesences upon each other. This dependence can only result from that of the corresponding planomers. In considering these, it is easy to class there in a small number of natural entegories, so disposed that the rational study of each successive entegory should be founded on the knowledge of the principal laws of the preceding entegory. The order of their dependence is deter-mined by the degree of simplicity or generality of the phrumena.

^{*} Dr. Amott's Elements of Physics, fifth edition, vol. i. p. 13:

It is evident that the most simple phenomena—those which are least mixed up with others—are the most general; for that which is observed in the greatest number of circumstances is the most independent of the various particulars of those circumstances. The principle therefore to be adopted is this; we must commence with the study of the most simple or general phenomena, and proceed successively to the most complex and particular.

A distinction is to be made between the two classes of phenomens which are manifested by inargonized bodies and by argonized bodies. The phenomena of the latter are obviously more complex than those of the former; they greatly depend upon inorganized bodies, while these in no way depend upon organized bodies. Organized bodies manifest all the phenomena of the inorganized, whether chemical or mechanical; but they also manifest the phenomena named vital, which are never manifested by inorganized bodies.

In the study of isosymic Physics we commence by separating the general phenomena of the universe from the less general terrestrial phenomena. Thus we have, first, relisted Physics, or Astronomy, whether geometrical or mechanical; secondly, terrestrial Physics. The phenomena of Astronomy being the most general, the most simple, and the most abstract of all, we must begin our study with them. Their laws influence all other terrestrial phenomena, of which they are essentially independent. In all terrestrial Physics universal gravitation is a condition; and so the simple movement of a body, if we would consider all the determining conditions, is a subject of greater cosysterity than any astronomical question.

Terrestrial Physics is also divided into two classes: Physics and Chemistry, Chemistry, rightly conceived, presupposes a knowledge of Physics: for all chemical phenomena are more complex than those of Physics, and depend on them in great part: whereas they have no influence on physical phenomena. All chemical action is subject to the influence of weight, heat, etc., and must therefore be treated after them.

Organic Physics requires a similar division into Biology and Sociology. The phenomena relating to mankind are obviously more complex than those relating to the individual man, and depend upon them. In all social questions we see to operation the physiological laws of man; and we see also something peculiar, not physiological, which modifies the effects of these laws, and which results from the action of sadicidant on each other, curiously complicated by the action of each generation on its successor. It would be manifestly as impossible to treat the study of the collective species as a pure deduction from the study of the individual, as it would be to treat Physiology as a pure deduction from Chemistry.

The Positive Philosophy therefore resolves itself into fire fundamental sciences, of which the succession is determined by a necessary and invariable subordination founded on a comparison of corresponding phenomena. The first (Astronomy) considers the most general, simple, and abstract phenomena—these furthest removed from humanity: they influence all others, but are not influenced by them. The last (Sociology) considers the most particular, complex, and concerts phenomena; those most directly interesting to man; they depend more or less upon all the preceding classes, without exercising on the latter the slightest influence. Between these two extremes the degrees of speciality and of complication of phenomena gradually augment according to their successive dependence.

The foundation of a comprehensive Method is the great achieveneest of Countr, as it was of Bacon, and the influence be has evercised, and must continue to exercise, will be almost exclusively in that direction. Over his subsequent efforts to found a social doctrine, and to become the founder of a new religion, let us draw the seil. They are unfortunate attempts which remind us of Bacen's scientific investigations; and, in the minds of many, these unfortunate attempts will create a prejudice against what is truly grand in his philosophic career. In the Cours de Philosophic Pontice we have the grandest, because on the whole the truest, system which Philosophy has yet produced; nor should any differences, which must inevitably arise to points of detail, make as forget the greatness of the achievement and the debt we over to the lonely thinker who wrought out this system.

CONCLUSION.

MODERN Philosophy opens with a Method; and ends with a Method; and in each case this method leads to positive Science, and sets Metaphysics aside. Within these limits we have witnessed various efforts to solve the problems of Philosophy; and all those efforts have ended in scripticism.

There are two characteristics of Modern Philosophy which may have be briefly touched on. The first is the progressive development of Science, which in ancient speculations occupied the subordinate rank, and which now occupies the highest. The second is the reproduction in Philosophy of all the questions which agitated the Greeks, which also pass through a similar course of development: not only are the questions similar, but their evolutions are so.

After the Eleatics had reaed the problems of Existence to no purpose, there came Democritus, Amangoras, Plato, and Aristotle, who endearcured to settle the problems of the nature and origin of himan knowledge. So, in modern times, after Descartes and Spinora, came Hobbes, Locke, Leibnitz, Reid, and Kant. The aneient researches into the origin of knowledge ended in the Scoptics, the Stoles, and the New Arademy; that is to say, in Scepticism, Common Sense, and Scoplicism again. The molern researches ended in Berkeley, Hume, Reid, and Kant: that is, in Idealism, Scepticion, Common Sense, and Scruticism again. These inquines terminating thus fruitlessly, a new and desperate spring was made in Alexandria : reason was given up-for cestasy ; Philosophy increed itself in Religion. In Germany a similar spectacle presents itself: Scholling identified Philosophy with Religion, Thus has Philosophy completed its circle, and we are left in this nineteenth century precisely at the same point at which we were in the fifth.

Observe, however—and the fact is full of signatewave—how, in the course of speculation, those questions which were susceptible of psoiline treatment, gradually acquired strength and development. If we are no far removed from a solution of any outological problem as we were in the days of Proclus, we are not nearly so ignorant of the laws of mental operation. Psychology is not a mature science yet; but it boasts of some indisputable truths. Although much remains to do, much also has been done; and whatever be the situate results of the new Method, it is satisfactory to feel that we have at least escaped from the vicious carele of verbal quibbling and logomachy, and are advancing on a straight read, every step bringing us nearer to positive knowledge, every addition being that of malienable truth.

Modern philosophy staked its pretensions on the one question: Here we my ideas independent of experience? This was asking, in other words, Here we my organics of Philosophy?

The answer always ends in a negative. If any one, therefore, remain unshaken by the accumulated proofs this History affords of the impossibility of Philosophy, let him distinctly bear in mind that the first problem he must solve is, Have we ideas independent of experience? Let him solve that ere he begins to speculate.

INDEX.

Abiliand, his character, birth, descent, studied 2011, love of Maketin. taste for materially, personal appearzace, frervish over his master, dragin of his much strains, 200; establishes a school of philosophy, his stebute with Champener, 204; his brilliant carver, intrigue with Holaine, 205-208; horomore a same. founds the convent of the Paraslete, his piritimopily and suntributings to the development of specialanon, 200; peculiarity of his donltms, 301, 302; object of his work Introductio and Theologica, his Irealian Seed Nov. 300

Academy, the New, difference betwen the acaptions of the New Academicists and that of the Pyrrhomete, 246; its derivation from

Place explained, 249.

Academician, the New, problem respecting preception presented by them. 250, 252

Al-Bales, his description of Sevenies,

Algarith both prouters studies, probasion, 200; coordinate between him and Descuries, 200; his experience, 207; his experience, 207; his experience, 207; his experience of doctrinos held by the faithful 200; his attempts to prove the experience of properties, 300.

Abramatrian pchools, the 238; schools of plain-ophy formed at Alexandria. 239; finatrious men assembled there, 200; direction given to the nend by the Alexandrian school, 263; in what its originality our sints, its disteries 268; the Alexandrian Trinity, 262–273; similarity of the Alexandrian Trinity, 262–273; similarity of the Alexandrian Trinity to that of Spin

nors, 278: aim of the Alexandrian school, 250; its termination in Proolin, 283.

America, his statement responing

Pinnesides, 43.

Anaximander, his birth, inventions needed to him, 11; astronomical and mathematical knowledge, leader of a colony to Apollonia, residence at the court of Polycomics, destricts and speculations, 12; his distinction between fields things and the Infrare All, 13; his speculations wholly deductive, 14; his physical speculations, 11, harmony between him and Pythagerns, 30.

Anatimenes, doctrines of, a development of those of. Thales, his birthplace, his theory respecting sir, 7 c its doctrine on advance on Thales,

8

Amotagores: birtle, patrimony, classicor, passion for philosophy, and residence at Athens, 61; his porcety, currer as a teacher, papile, accusation, burishment, death, 62; his philosophy, 63; heading destrians, 64; cosmology, 63; his rejection of Este and Clauses, 64; Plate's objection to him, 67; his action respecting landingence, 69; metales made by how, mapphesis by of the title Ecleste to him, 70; altrasoion of both Symes and Romson into his system, 71.

Antisthenes, his life, teachers, system, 149; his manages and gloving temper, syland founded by him, 130.

Archaus, two great epochs in the anothermal development of the 311. Arabian philosophy, 201; Arabian philosophers, their funcliarity with Grock writers, 200; obligations of Europe to, 311.

Arcesilian : birth, studies, promotion

2 8

to the sendenic chair, character, death 247; his doctrine of neutaleute, 240.

Arrington and Timese, works attribated to them, sparrous, 23.

Aristippus, founder of the Cyrenale school; his acquaintance with Sorentes, 145; residence at Cornali; disposition and character, retern to Cyrene, 146; his philosophy, a previous of Epistementar, its relation to Socrates, 147; his dec-

tribe of pleasure, 148.

Aristotle: birth, origin, 2021 vdavation, root to Athena, 203; writes his History of Assistale, 214; Seands the school of the Povinceties, upflavore of his writings, 200; maters of he method, 500; difference has tween him and Plato, 267 ; his doctrine of induction, 208; communesment of positive science in Armtotle's particul, 200; difference between the Arietotellan method and the method of positive seignor, 210; difference between Aristotle's and Plato's use of the term dialectics. 211; his entegation, 213; object of his losse, 214; his propositions, \$15; his defedtion of the selfor gion, 217, his metaphysics, 218; errors in his theory, 210; his ranew doctrines, 25%; rempared with Plats, his verentile intellect, 221; results of his labours, 223; his long amburity raplained, 313; his informer on the sixteenth con-SHOY, 718.

Authority and Liberty, principles of

3115

Bason, Francia : birth, anountry, rdusution, 335 ; visits France, sindas common law, distinguished in an omier, even a member of the Prey Court, appeared larger of the Great Seal, Elif a created Barea Versley, musted of semption. impositive retires from positic life, 337 ; his dough, his method, 338; his four classes of polity, 239 Into the scription of induction, 347; his doctrian illamented, 345; kis Perropatice June 142, dulinguiding characteristic of his philosophy, 353 his chief merit, 364; division of his method into two parts, his Johnson, 245; postive tendrary of his speculations, 246; his sayssalva of some from theology

illustrated, 347: his declaration respecting physics, 318; his testimanies to the grains and stress of the assistate, 319; the promiseous of his Orygeness, 350; his constant aim, 351; requiry into the originality and usofidness of his method, objectious brought against it by Lo Maintre and Mescally refused, 353-375.

Bullinger, M., his method for treasering the surfaces of the beam,

HIER.

Bellef and perseption difference be-

terrore, 450.

Berkeley, George; Lirch, education, publication of his writings, visit to Loadan, recogniouribers, chemeter, 461; carear, travels, preferrent, visit to America, return to Englevel made Pestrop of Cloyne, reserval to Oxford, death, his idealies, 462; microleptarding of him by his orition, his rejection of the nonunion explained, 462; accusation brought against him refuted, doctring of the reality of things muintained by him, 464; his definition of selectance, 465; his starting-quest, 467; his theory of the origin of knowledge, 468; kernel of his system, 465; his pleatification of the object with seven tion, 470; findmental practice of his theory, 471, his refutation. of realism, 472; his triumph over dustion, 473; his theory mechatable, 474; his main position incontrovertible, 475; course of his fighere, results of his laboure, 478. Brain, fiscation of the, 502 a dis-

are puneres in the narrof the, 644. Bruno. Giordano, his anestyrdon, 234; centy of his works, 215; has lerth and disposition, 136; districter, schools the Hernman freek, his doubts on transferminates and respecting Amstotle, his adventuross scarse, RIG) im persocations, 317; his tearloon, 318; his passition strong trackers, his travels and a benefited, 1839-22X; Hight to Venice, through into prices, and to Bone, 121; encontermented and publishes at the saids 325; historical value of his system, 326, claracter of his writings, 327; his selimentes of Spiance and Pleacertes, impulse given by him to the study of Spiner, 328; his recol339; grander of his system, \$10; his county, 331; his various wrilings, 532-534.

Cabonia: Pierre Jana Georges, 621; physiologosal method to be sought in him, 622; berth, profession, residence in Autori, durch, his work entitled Respects on Physics, his position in the history of philosophy, 623; his recognition of the sorty of life and mind, his producement, his physiological psychology, 625; see physiological psychology, 625; see physiological psychology, 625; see physiological psychology, 625; see physiological psychological psychology, 625; see physiological physiological psychology, 625; see physiological psychological psychological psychology, 625; populatily and influence of his work, 627.

Carmendes, highly teachers, processtion to the academic clair, 245 ; sent as and annual to Rosse, influence, return to Athens, death,

245.

Certisian district, 182.

Constant, defined, \$23; synthese of the theory of, exposed, \$55; instructive belief in consisting proved to be false, \$25; belief in consiting, on what founded, \$60; uncount constitut, neares of the belief in \$55; reflection required for the belief is, one an instinct, \$68.

Century, the enternth, its place in

history, 317.

Certainty, how attauntate, xxxiv.

Chestology, Hegolius, Spinsta's au-

Colland, Bayer, S.ts.

Conston sense philosophy, federe of and benefits conferred by, 528.

Courte, Auguste: historical partition, nature of his method, his Chara de Philiopolis Positive, 65%; his insegnenties of a philosophy of science, 65%; his fundamental low of prolation, 65%; unture of, 657; its three scapes not strady chronological, 65%; his classification of the fundamental encaces, 600; his infances, 60%.

Candillac, Etienne de, hutla rareor, publication of his vessy, appointed into in the Prime of Parson, made a member of the French Academy, publication of his Logic, death, the representative of Locke in France, 135 a object of his Track! des Sensations, popularity of his system, his meconception of Locke, 496; his dectons refund, his error reequeting the mental faculties, 427; his theory of semanticus, 420; his definition of ideas, 420; the system, 501; consistent rever of his system, 501; consistent rate of his system, his discovery that our faculties are not incade or even consists, 501; mental of his works and style, 500; his want of a true psychological methal, 506.

Consequences, Juritation of, 180.

Commun, law of, 311.

Consin. Victor, 649. Crimicocopy, 634, 635; difficulties be-

Cyronic school, the 445.

Cyair related, the 140 perfect created by the school in Athena, great qualities of its straighte. 152 persons of the want of proper felt for them, 155.

Directe, Caville, his researches into the crassdesions of the brain, 0:21.

Darrie, Researce bath, studies, preference, his press of the Betwee Guedes, his Zeemanie, his theory the arms or Hartley a his Jeffel, tion of the Xord alon, 512; his conception of psychology, 513; his theory of vibrations, explanation of perception, 517; theory of beauty, 528.

Definitions, unployment of by Socrates, 130; importance of, in the Sociatic method, 132; in what they

samid, 212

Denoverina, the langlang philosopler birth, 80; character, station, carrier, unsolving respecting, obsentity of his philosophy, difficulty of assigning less a position 81; differences between him and other schools nature of his doctrino and tembing, his identification of sensetion and thought, 82; his doctrine of reflection, 83; his hypothesis to explain preception, 84; his doctrine of montage, e5; superiority of his system, 86.

Descrite, Rend; birth parentage, parenta, converes the design of a reformation in philosophy, 207; problem of his Distourn in Method, sensitive produced by it, visit to Stockholm, death, character, 268; causes which had been to the intention of his method, 300;

Against imprefection of his Courts. erm See, 200; vital portion of his ayelow, 2011 psychological portion. mathematical or deductive portion. 372; differences and resemblances between him and Bacon, 374; rm. ture and tendency of his method. 374; applications of his method. weakness of his attempts to deressstrate the cantence of feed, 206; planted speculations, five postion 378; his principles externed, fallacy of his system, 350; fallace of less notice that the errol is a passive recipient, 281 p his doctrine respective counts kinds, 1962.

Diabetics, Zean of Ebu the meeting of, 50 mention of, to what owing,

Kill

Diograms of Apollomia , birth, tends, 8 throny of his; 8 ; the last aurent philosopher attached to the physic end method; 10.

Diogenee of Sucan Birth, payertage, flight to Athens, percepty, life, 161; his communion, 163; characteristics, 15 6; donth, 188.

Echestelan, 640; origin and growth of 648; defaulties of 649; milerius, security of a, 650; must of a enterior to the system 652 a valuable as a subsidiary process. 632

Ecitary, famility of, place it holds in Neo-Platagira 207

Ego, the activity and persivity of the. ROLL

Elephora, She, Till.

Empedocks, contrary contains as to the place occupied by Lies, 72; in-terpretation of the disputed purange in Amstelle respecting, 73; birth, entire, represed of the deis puty trivia ramore. and unrestors respecting him. 74; succeptainty as to be teachers and has reputage, To a directory of ognitring with respect to his position significant, his relation to the liberthe school, his resemblance to Zerophones. 26; his attempts to prope the existence of Ecuson and of the Breus Netters, 77 his attacks on enthromorphisms his relation to the Pythagorean school, 78; adrangemale by lumon Anaragora's doctrine, 79; his conresponds of God,

Egwarm.co., the, 230.

Epicerna high, origin and observing 200, his trately opening of his school in the garden, his character, accusations brought against him refisted, mispegaragestations of his floor trius, 201; distily felt for him by the Stoice, has destroyer and experien-232, 233; We Ohwal doctring psychology and physics, 2011 his doctions beviewed, \$35.

Eroche in Philosophy - first speekspeculations on the nature of the intimuse, 31 mound speck-special lations on the creation of the universe and the origin of knowledge, 55 a third epoch—intellectual errors, 87; fourth mode-a are era opened. 105; lifth speed-persol saloution of the Secretic partlant, 112; with rpen-complete alone tion of the Sorretie method, the severally special-philosophy again related to a vestion, 202; out th eponi-twood mids of Greek phi-Imoghy, 225; much speck-phi-Inophy allow made with faith, 258; condition of anomal philosophy, 283 Transition period, 289. First speech, formulation of the industry nathed 135; swood speck-from denote of the deductive method, 200; third epoth-philosophy redated to a question of parthelogy. 417; frurth spech-the subjection nature of knowledge leads to idealine, 461; lifth epoch-the organ ments of idealism corned out mor scriptions, 1771 with speciments origin of knowledge referred to seneation, 450; netwath/spoch—avoud crisis, \$10; sugistic epoch—recomtruce to the final mental quarties respecting the origin of knowledge, 129; mich speck-missing reasserie its chira, 500; tenth synchpsychology weking its basis in plays molegy, (21 ; also with worth - phis lemply finally reliquishing its place is from of position ecastics, 61460

Eurasi of Megara's birth, dailybs in listening to Sources, 143; his gesemblance to the Klentics, his dislection, 141

Existence, buncfus, 404.

Experience, diagrate concerning, 400 a the foundation of our belief in country, 550.

Experimentary errors value of the

21530

INDEX. 600

Fighte, Johnson Gentflah, barth, prepositioners, 500; streeds and 567; submettion, 500; life at Schulpfferte, 500; becomes a constitution bloodgier, 570; remience in Switzerland, acquarationer with Kant's writings, 571; writes an abridgment of Kant's Kritisk, 572; extracts from his journal, 573; make professor of philosophy at Jens, residence at Berlin, 574; shouth, character, histowal position, 575; bis opinions, 570; has defaution of feeth, and place occupied by it in his systems, 577; has of his system, 578; his shortmen of the Ego and Non-Roo.

670; his district of the identity of

Selgent and Object, abote his doc-

trene of the Walf, his oberfron, 581;

ha distinction between the Ego

and Non-Ego, 582; difference be-

twen him and therkeler, 585; ap-

pliestern of his idealtest, his doetrine of the aim of man's existence,

his definition of Duty, 586; his

fortune of the confitm of case.

norse and the freeding of the Equ.

his spinions respecting Gul. 187;

his philosophy of history, fees.

Pathers, the Christian, 289.

Gall, Francis Joseph birth, attention early railed to phrouzingy. Jestures at Vierne, 629; Gall and Sparalaine risk Paris, quared between them, 631; his insterioral position, arrives embered by true to physiology and psychology, 622; his naturate, 603; his assumer, 603; his assumer, 604; his assumer of the abendouseast of Gall's method, 649; his producessore, becomeny rejection of his agency, becomeny

German Pantheists, 503.
Greek ethics, their range, 284.
Greek impairy, its moults, 284.
Greek philosophy, nature of the secoul cours of, 257.
Greek philosophy, nature of the se-

Greek speculation, conclusions served at after nettering the history of, 27h.

Hartley, David birth, parentage, studies, profession, publication of his Treatine, MC: misupprehension of him by Dy. Parr, death, character, his system, his definition of man, 608; his opinious respecting mind and matter, Wit ; his theory of sibrations, application of the distribuof assuration, 510, position cent-

pied by him, \$11.

Hegyl, Groups Frederick William, birth, editoriou, residence at Tubivgen, intimucy with Schelling, resolver at Jone, publication of his dissertation Do Orbins and has restly Glasden and Winne, intimany with Gorthe and Schiller, part lecture at Jose politices his Physica where, horrer dress for Bunberg and Numberg, morrings, recolamne at Haidelberg, parts Makes his Employeeter, twoisprofessor at Borlin, death, his methed, 600; his teaching, position, invention of a new method, 600; nature of his method, will pendia of his method, 604; his doctrine respecting contraines, file; process of his law respecting contractes, his notice of God, his method, whither it led him, may similarly to Hums, 600 a retinate of his pirihosophy by his disciples. Here his greatness, necleonose and permicionisms of his system, his locial 000 : in what it consists, first proposition in his logic, bor treated by Lim, 610-612; his system, why resymbol, 613; application of his method, 614; his Philosophy of Nature and Intelligence, 415; his Lessures on History, #55; his Philosophy of Beligion, Ell' : myplicability of his method to all supjects. fill's analysis of his Min'arg of Philosophy, 632; chican and attridgments of his works, 620.

Helone, her lastory, 226-228.
Herachitas, the crying philosopher, his origin and bertla 55: his sharester, 56: his philosophy, bendeter, 56: his dostrines, contradiction between him and Xencylones, 57: a materialist, 58: his dostrine a modification of the Icutan system, 56: his explanation of phenomena, 50: his eligeneous or phenomena, 50: his eligeneous regulary, 51.

History, two principal species in, 588, Hobbies, Thomas, depreciation of his servers, his sentings, etyle, and pintter, 417; his position in the history of philosophy, 418; this principal of the eighteenth century achool of psychology, 419; his discourry respecting our emutation, 420; his definition of tangination, 421; doStation of manage, \$22, amountains of these francostrated by kirs. \$23, his psychology, \$24, defaution of understanding, \$25.

Humanity, the periods in the life of,

Harm, David, birth, purerage, view to Francisco of his trentim on Manuse Nature, 479; pub-lication of his Emergy, travels, puls Brutter of his Publical Directors and his Jupice, appointed hieraman to the Family of Advocates, publication of his History of Esydeath his death and claracter, his explicate, his inference on spoon lating 490; his throng respecting secondanous paint has rettian of the objections to him, 481; his theory of the source of our reasoning 452; charges brought against him refuted, 183; untage of his mosion, 464; for resplication nature of, 485; his theory of supattion, 495; source of the opposition to it, 487, 488; incompetency of his expla-natura of our beloci in countries, 18%

Idules, aparticle try nature of, 478; idealess arguments aneword, 476; error and trains in the croten, 477.

Ides, are of the word. Mr.

Idea, issuite, doctrine of, anticipated by Paymenides, ET; ideas, aganta, 361; inquery into the origin of, by Locke, 436; theory of finalizations.

ideas, 410.

Induction and Syllogium, dictions between 216; nature of infraction, 246; how to be exadered, 341; co-crimation of its elements into a compact tody of elements into a compact tody of elements 344; if florence between simple-incommon and craticom-methodical, 354; a graduated and successive, insisted upon, 358; orderer confused with scientific, 359; tacketive method as distinguished from induction, inductive rules, importance of over-rated by Baron, 360.

Intellectual operations explained.

A335

Intuitional praton, assumption resporting, onto.

Ironn school, distinctive characteristics of, 4.

Josffey, Thomas, 649.

Kare birth, parentage, education, pursuits, character, life at Kongaberg, 520; publication of his Cristions of Paye Rosses, 530; Jouth, solution to Sandonberg, Insurinal position, foll , charmon of his system, Wile object he had in view, his trayery into the nature of exporieuce. Los aprincipa of the operation of the mind, problem by set Equally to solve, his convention of a purely critical philosophy, 530; his theory of hareledge, 534; his theory of the purpose of sentents. 135 : his answer to the couplin and degranist, 536; difference between him and flums, his theory of the veranty of our closures ATT: Ireals ing points of his nearests of the mind, his firmion of yalgrarents into amily tie and synthetic, AB. Lartheover that missisface achievomething to sense-experience, 550; his psychology, 540 ; object of the Colline, 54f a his impairy into the objective reality of apace and time, 542; his uniform of the forms of the understanding, 543; his Categories, his country into the pure ferms of year son, his theory of the office of reason, 544; his theory of the three pure forms of reason, 54h; reason semments of his psychology, his theory of an external world, 546; his theory of the constitution of knowledge, his assumption of the impossibility of ontology as a science, 647, posults of less analysea, has theory of mural communica-548; of the freedom of the will, nuclearized principles, current tion of, 649 vital point in his eyetem, 500; his theory of camunion and destroy of necessary traths, 651, 558; his distinction between a pure well as expined cognition, 503; No they's on numerious centated by Whewell, 554-556; ereor in his theory of passantion, 555-550; latest derelopment of his dortney, \$601 his noctrine of fundamental ideas, 541 ; his notion of progressive intalkies, 562-564; result of his system, 565.

Lerbritz his ungurants against Lecke, reputation as a plaintepler and mathematicina, 455; influence of the material over him, his arguments respecting informatity and moreolog, 450; his doctrine of an execute metho, 457; real force of

his theory, \$78.

Locke, John Stinth, payentage, eduresion, life at Oxford, contrarys for university similar, 426; his profemency in mediume, turns his attention to pelitics, travels, plum his Keepy, returns to Oxford, is dopercent of his madentakip, your to the Hager, publication of his letter on Delevation returns to England. \$27 a publication of his Error, its received, reposition emitted, anqualutance with Newton, death, spirit of his writings, charges brought against him, 42%; proof that he did not borrow from Hobbes, 420, 430; his good qualities and originality, \$31; he estiemin of the value of hypothesis, his conditions to change his opitions, 432; characteristics of his Rang, 411; his method, the founder of modern psychology, 431; object he had in view, 435; plan had down by him in the conthat of his massiry, 420; his postlatima, 430; his theory of the origin of our alson, \$500, and of the origin of our knowledge, 440; his defintion of reflection and senation. 441; elements of idealism and ecopticion in las system, 443; his theory of the pressry and somedary qualities of bodies, 444; his naticipation of the descripe of cansation, 465; his definition of knowledge, his doctrine respecting surple and complex ideas, 696; his desagnization of sorpticism, 437; object of his every, \$45; his critica, 448-453; careful study of him recommended, 45%

Logic, definition of, 211; object of Amstolle's logic, 211; that logic de-

finel, 491

Microsto, his argument against the originality and techniques of Recen's method refuned, 353-365.

Materialism, penciple of, somet, 415. Mathematicans, the, 11; collision between the mathematical and physical systems, 54.

Megaric school, the, 142.

Metaphysics, acteurs of, desired by the Sophists, 100; these questions propagated by metaphysics, 275; assumered by the Alexandrian erhool, 25% metaphysical and seignishe methods, govainal difference between, xxx; irrationality of translation or nationlassic con-

recognition or encuelyraise, visits.

Method, estimate of, by Sarrafea.

1341 production of a phylosophiral method, Sometic method, its ragonama, 143: Aristotle's tauthod, 200; spirit of Basses's method, 343; method of carifornion, 355; metalnew of Baron's method, 359; radio cal defect of Bacen's method, 341; Brown's method only indirectly mehal, 2013; Blecon's method latest in the spirit of the ago, no realesce. against his originality, \$64; full cetalidelement of the distortive method, 20th, Descurtor method, goodness of, exercised, 378; Spinota's method, novelty of, 307; Locke's method, 534; Hegel's method, 601; the history of the rice of the psychological method, 621; the posttire method, full; value of the positire method, 650; illustrations of the experiently of the positive method, 600; the birth of the new method, six

Mill, John, his strictures on the day. The remoste much count of effection

424

Mysticises, infusion of, into philasophy, 278.

New-Photonism, untagenism between it and Chrismanity, recess of its failure, 264; Neo-Photonic theory of God, 271; Neo-Photonic doctrins of committee, 275; Neo-Patonic theory of the origin of the world, 276; their doctrine respecting God, 277

Normanius, dayste concerning, 291.

Object, the, and sensation, want of correspondence between, 25k.

Oatological opeculations, basis of all taulers, 382.

Parametake, 42, birth, wealth and devotion to study, his politics, claractionatics of his philosophy. 43, his doctrine respecting the dealing of thought, 44, his arrithment to tops always steme, 45, reasted point in his system, his notion on the science of Being, 46; his doctrine of the identity of thought and emissions 47, his physical speculations, ideal clement introduced into his specibecome explained treatment of his

deciriese, 4%

Perception and removing, difference between xxxx; perception and mocition, difference between xxxx minus of perception defined, 220; proven cl. 504.

Point torth grants education, 200; his timelests, figured and Occasional advances of his mind, agreement and difference between him and Phys. 200; his theology, 202. Philosophy, distinction, between

and asserte present decidence (d. overlar agarment of anti-tipes tacle promoted by the hosseyer. detailing of, writing augment philosuply seeminity metaphysical, Air i especiarity of actingo to, and characteristics of, difference beregarded as a system of smallt, exert a contrast between philosophy and enemy, axvio; preved to be rapposible, axin, the mitator of mwree_raw; perpose of the author is writing the history of harvill moral philosophy emuted by flocentes, 223; conclusion of aucient philosophy, 283; inflarance of, 284; Christian philosophy a mineracy, philosophy, in what it marity, 205; modern philosophy, com-momentati of, mediated philosoplay, 200; cultisance of Amsouth over necessary by the space of the second putien of philosophy, 312; femilemental question of melon. 202 : first wists in sucders philosophy. this reaction against the eighteenth contary philosophy, 646,647 1 office. of practive plakurphy, 655; robusties of positive publisophy into five fundamental mirrors, OGL: 100 characteristics of modern philosoply, present condition of impascibility of a 663.

Plentrima, order of their depen-

denoy 00L

Phrondagy, rise of \$25; rhanges made in the localization of the organs, \$30; two distinct aspects of \$31; difficulties of \$30; proper object of \$25; assumptions of \$30; initial question affecting, \$12; has portant point it has to determine, \$13; chaosic aspect of, \$44.

Physics, region and inorganic, treated by the positive method,

663.1

Physicists, the, 3.

Plater, interest felt in him, his clusractor, inture of his metaphysics, morals and politics, 136; paret-LOS, his southersus and correction of by Somnies, less travels, 150; his dreitness, being their purch ergenestation character, risti to Sorly, sold as a store, 161; visit to Syracus, death, Superson, 162; character of his actings, 165; his Thistoger and Torother, vaccions of them agreement. Hit i his opiniona Plantrated table Distinguita 166 : design of his Distinguis, his disligation, 167; attempts to classely his Disfinant, 108; chromitage of, 109; money for a positive ar-rangement of his works, variations in his openious, 170, 171; now classification of his works proposed, 172 ; purpose of his Diefgree, his method, 173; nature of his philosuphy, 174; mature of his method, Whe his correption of philosophy as dialection, his great dogue. Lift's his theory of general terms, 174, his dortran of alear, 179-181; his psychology illustrated, 181-184; his doctross of inserc ideas, 185; his doctross of recollection, 186; division of his philosophy sate two times law, passage from the Repuls or Bormany of his method, 1871 his doctrine of entireast and was more studie, his system is everal of the condicting terrelevers of his age. 1931 antomory of his dissection, 1901 his theology and councings. DE | his maslogical peasoning, Etc. his doctrine of well, 193; doctrine of meteophysicals at applied by him, 191; his view of the bountiful and the good, 195; his others, 197; exertabletions in his ethical opinione, his Republic, 198-2011.

Platonic philosophy, control serve of,

Perceion its teslor with Oriental systems 202.

Plotting, 261; he agreement with Plate, 200; his resculiators to German metaphysicians, 273; spirit of, revited by Scholling, 505.

Parities of the Steratic method in the history of spentileties, 223,

Process, the reclaims, accounty of, included on, 342

Process, both visit to Alexandre

DDEX. 678

and Athene, his theological fundency, 270; his permate of feith, his method, 280; his necession respecting enthematics, his necestion respecting the mind, 281; the last of the ancient philosophers, 2-3.

Prophetorn, 210.

Prologous, the first crowed Sophiet, his studies, 48; resculdance between less and Hernelitas, his doctrine of armation, 10; a tendar of

successive, 100

Per in logs, beam taught by carri; its assumption of the place of outcome, 415; reason of the importance is that assumed 416; paydon legical method, history of the, 621; necessity of at establishment on a physiological basis, 645.

Pyrelo, Resider of the sceptical phobroughy, contrast between him and Sucrates, 22%; his doctrine, irre-

conscability of, 220.

Prilagonas , birth, In , our of the group founders of mathematics, the ales current ation) him, 16 aprobability of his formy racted Egypt. unlike boost of his hirring been instructed by Response sprests, II; invention of the word philosopher by him, 15; its interpretation, his nearest eccusty, political extreet, 19; modernes at Croten, difference betwom him and his professions, 2); rivings against him, doubt. musical scale invested by him, 21: his philosophy, his thetriage a connegation of Aumanuader's, ancerthing us to the generalises of the common membed to him, 22; no per alian diserraces attributed to him. by Plate gal Amstelle, his oral tendang, 23; his theory of treebers, 24: In decimes contained to a few productive destroys, 27. Ma. openium on calculary points, his doctrine of the transmigration of soult, 28; his shortstone in relation. to the preceding philosophy, 2); the representative of the around bearen of Iceans philosophy, 30.

Pythagoresis, cylchemod, 21 ; Pythagoresis ushool, its method and tendency, 23 ; who added the mathematical, 24 ; Pythagoresis system; a vertial quishle at the foundation of, 25 ; Pythagoresis Remarks, matches as to its merging by Executard others, 26 ; Pythagoresis

dortma, translations from Austontic's Metrodysius respecting, 30-92.

Renhen and Nontritium, origin of the dispute between, 177.

Removing how conducted in Bacov's street, 337

References, successib convery, spirit

sommen to the 317.

Evil, Thomas birth, education made Provision of Moral Philosophy at Alterdren, publication of his Ingains into the House Mind and of his Resum on the Intelligence! Plantery death, his philosophy, \$14; his multitropent of books, and his refutation of the Lieut theory, 52%; his attack on sopticion, 521; his theory of perception and instinct, \$53; difference between the Ideal Lypothesis and Bend's threes, 554; the great point in his theory, 525; his theory of librar of expension, 526; difference between little and Berkeley, his mistake respecting the origin of knowledge, 527.

Reminiscence, distring of impired in a passage from the Phase, 181.

Reposite the of Plate, deficulty of determining its date, 160.

Revolution, the French and materialism, funcied association between, 647.

Rome and the Entres which of phibumphy, exten Roman philosophy, 259.

Sensation, grawth of, 442; impositility of displacing by an idea, 500; distinction between sensition and idealizes, 503; sensition subspendent of thought, 500; dependent in the sensitional centre, 515; visual sensition, from produced, 546.

Scornional school, thr. 450; sensa-

tional contres, 5001.

Supplies, arietable made by the uncent, 227; unture of their influeurs, 228; main position of emptision, 521; empticion not refused.

by Roda theory, 172

Schrifting both stocks at Tolkingen, friendlike with Hegel, residence at Josa and Berlin, death: his distrines, 501; his graphicale tendency, 502; his improvement on Pichle's distrine, 503; difference between him and Figlie, the Ego in 674

Schelling's system, 694; function of reason, in his system, 596; three envisioner in his services, his special Indices on Nature, 596; handacuse ness of susso of his ideas, his opinise of salaring, 207, results of his speculations, similarity and differmay believe him and Spinous. 538; delicence between their inthirds, 530.

Science, Incar progress of aring sciences, progressive development of, 653 a present condition of, 650. Scientific method, an superiority,

Schrönitsism, 280 manifestations of the philosophical element in, 2004. Schoolnen, the, error committed by,

Scotck philosophy, failure of, 528.

Sacrates : his opinione respecting Ananguras, 67 ; his life, antagealon between him and the Sophists. his tension, 104; freetment by the Sophists, 100; effect produced by kim, his personal approximate, 100 a his qualities, 100; his birth, panexts, education and early studies, Dist his wife, his malitary services, 100 c anerolotes respecting him, 110; his public current, 111; con-duct as Epistates, 112; mistaken for a Sephist, 113; his mode of dispeterces, 114; his tentos and lasbits, 115; his daily compation his cuemies, 116; his condennation, 117; appligg for the Athenius, his alleged impirty, 118; his refigress operion, 110; les tent, and speech made by him. 121; his bylaterists in the prospect of death, IZI; improviou produced by it an Physics, 122; the closing terms, 123; his classister, 124; his philorophy, now method invested be him, 125; his not of the terms genus and species, 126; meeting respecting his enterpation of Bacon's method, 127; differences and resculturees between him and Baron, 128; drift of his questioning, 129; the fembler of a new epocls, 333; his appropriated spondstim, 132; phimophy has given by him to the doctrine of the immunishing of the weal, 135; his arguments in ference of a beneficial. Providence, 136-129; conjectures respecting his densen, Loty his alatement respecting the Division

Print, 141; Socrator philosophical career justified, 100 commary of the Sorratio movement, 223; honefit outferred by the Somitic epoch.

Scalar, menning of the word, 18.

Sephints, the grack relavorated, Si a come of the delike felt for them by Plato, 50; meaning of the word. ragrammed of the term, 80; various assertions respecting them proved to be faine, 90; their teaching, 01; net taught be there, not repreheusible, 93; are of disputation taught by them, 93; their art compared with ference entery, 95; their popularity, 55; estimation of their set by the Greeks, 10.; doctrines taught by them ethical contains tion of their dastriace, W , delereact between them and the Scoption, 2001; their opinion of orstory, the manual production of the oppneign of the epoch, 102.

Scetius, 211.

INDIA.

Speculation, tendency of early philo-

rophical, 5.

Spinson: his childhood, 383; his parents, his carly provious for study, hindoulds, 286; stremoned before the Bablicae, withdraws from the symmogue, his attempted assocination, his excounteraction, 385; les attropacut entern, his love for his manney's daughter, 387; his disappointment, his Latin studies, 200s; horses Amsterdam for Loy. den, writes his abridgment of the Meditation of Describes, sensative produced by it. his residence on the Higgs, DO: derive the clair of philosophy at Heidelberg, Teasty of his course of life, 120 ; his por-sorty, publication of loss Desegrator Theologies Politices, 201; Hate of thoughts Hollanden its approximet, 20d, his classifer, attractionic, druth, 1201; his doctrine, a logical development of the system of Denearles, 20; his dictrine of Note steam, 386; his agreement with Descrites nowlty of his method, his Definition 307; his discour. 235; his notions on more seal effort, 200; his Propentions and Ceroffering, 400-495; his proof of the emisence of Solutaires his theology, his exposmon of his destrice completed, \$14; cames uly is in houseful as othersural;

415; his dostrine of Frant Clemes, 496; his demonstration of the mathropomorphic tendency of judging infinite by finite washing, 497; impression left on the mind by his theological system, 408; initial error of his system, 400; whence it arises, 410; logical perfection of his system, his criticism of Bacon, 412; justification of his employment of the grosselecal method, 413.

Stoke, the, 236; Stoked Joetrine, analogy between the Stoke and the Scotch philosophers, their ethical doctrine, 243; tendency of their ethical formula. 241; mistakes made by them, merits and descrits of Stokeam, 245.

Systems, errors at the poot of philo-

Sophical, 14. Table-turning, xulii.

Thales, father of Greek speculation, hirth, origin of his activity is politics. 3 ; a professest or mathematical knowledge, 4 ; his attempt to discover the beginning of timings, his philosophy in harmony with meteral optations, 5 ; wrongly secused of atheism, 6 ; his specula-

tions, infurtive in their enture, 14. Timese and Archytas, works attrilated to them, spurious, 21.

Transit, Aristotle's comment on the, 167.

Trithe, necessary and contingent, 563; nature of contingent trithe, 564.

Universals, importance of the dispute encorning, 200.

Van Heande's arrangement of Plate's works, 172.

Verification of particulars, the desirguishing characteristic of the seieatific method, xxvi. Varification, graduated, systematication of, 344

Villers, Charles, his letter to Cavier,

Zero, after Palamedes of Elen, 48; cherester, political activity, exptured by Neurchus, 49; dentis, his philosophy, the presenter of dialoctics, the first process retirer, 50; difference between him and Paracomides, his distring of one scale-new and many appearances, 51; his enganesis respecting metion, his Arhites panels, 32; its refutation, Zerot, the terminator of the second great line of independent aspirty, 54.

Zeue the Scott : birth, origin, pursuits, studies, survey. 236; franchs a school, his character, personal appearance, douth. 237; his philotephy, 238; psychology, 239; his

theory of senation, 240.

Zenoplanes, birth, a cultivator of ologiac and guessio poetry, busishment and wanderings as a rimperdist, pererty and familiases, 18; a recedimit, 34; his doctrine resperling Truth, disagreement betwees for doctrines and those of Pythagona, few of his ristosofies sociant, \$5; combissions arrived at byhim. 35; the head of the Moneytheists and Sceptice, his philosophy, sitemated solution of the proturn of existence, 27; explanation of his notice respecting God contradiction between his opinions, 28; his partheten, his monotheists differout from unthropomerphism, a moaetheist ouly in contradiction by his polythesitical contemporanes, 23; nature of his sceptiment, 43; his conceptions of the Deits, the his influence on the progress of specialities, 42.

(Mark Charles STRING TALLS Albert World Property of the Landson Control of the Co



Accession no.

JFF
Author

Lewes, G.H.

Biographical
history of philoCall no. sophy.

History

